



Cell Biology > Cell Cycle > Markers

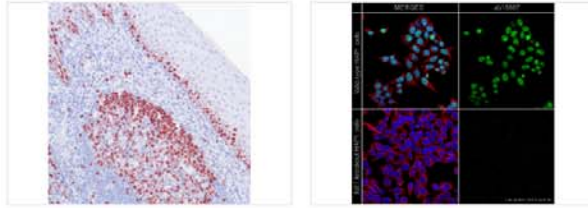
KO VALIDATED RabMAb

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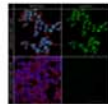
Anti-Ki67 antibody [SP6] (ab16667)

★★★★★ [Abreviews \(81\)](#) [Q&A \(18\)](#) [Specific References \(371\)](#)

[Datasheet](#) [SDS](#)



Most popular with customers

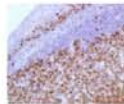


Anti-Ki67 antibody [EPR3610] (ab92742)

★★★★★ 10 reviews

[References \(18\)](#)

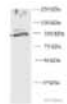
Applications: Flow Cyt, ICC/IF, IHC-Fr, IHC-P, WB
Species: Human



Anti-Ki67 antibody [SP6], prediluted (ab21700)

★★★★★ 3 reviews

Applications: IHC-Fr, IHC-P
Species: Mouse, Rat, Human

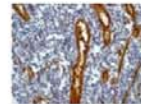


Anti-CD31 antibody (ab28364)

★★★★★ 94 reviews

[References \(487\)](#)

Applications: ICC/IF, IHC-FoFr, IHC-Fr, IHC-P, WB
Species: Mouse, Human, Pig



Anti-CD34 antibody [EP373Y] (ab81289)

★★★★★ 24 reviews

[References \(82\)](#)

Applications: Flow Cyt, ICC/IF, IHC-Fr, IHC-P, IP, WB
Species: Mouse, Rat, Sheep, Dog, Human, African bush elephant

[Datasheet](#)

[Specific References \(371\)](#)

[Protocols](#)

Overview

[Customer reviews and FAQs](#)

Product name	Anti-Ki67 antibody [SP6] See all Ki67 primary antibodies
Description	Rabbit monoclonal [SP6] to Ki67
Tested applications	Suitable for: IHC-FoFr, ICC/IF, IHC-Fr, WB, IHC-P ▶ more details
Species reactivity	Reacts with: Mouse, Rat, Human, Common marmoset
Immunogen	Synthetic peptide within Human Ki67 aa 2300-2400 [C terminal]. The exact sequence is proprietary. Database link: P46013
Epitope	C-terminus
Positive control	IHC-P: Human tonsil and testis tissue. Common marmoset spleen tissue. Rat esophagus, small intestine and liver tissue. Mouse embryonic skin tissue. Transgenic mouse spinal cord tissue. ICC/IF: HAP1 cells. Human cardiac stem cells. HEP-2 cells.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.09% Sodium azide Constituents: 1% BSA, Tris buffered saline
Purity	Tissue culture supernatant
Clonality	Monoclonal
Clone number	SP6
Isotype	IgG
Research areas	<ul style="list-style-type: none"> > Cell Biology > Cell Cycle > Markers > Neuroscience > Cell Type Marker > Neuron marker > Soma marker > Tags & Cell Markers > Cell Type Markers > Replication > Neuroscience > Neurology process > Neurogenesis > Cancer > Cell cycle > Cell division > Cancer > Tumor biomarkers > Other

Associated products

Product code ab16667

Size	Price
500 µl	\$429

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Shipping info

\$45.00 to United States
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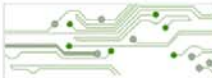
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> [Anti-alpha Tubulin antibody \[DM1A\] - Microtubule Marker \(Alexa Fluor® 594\)](#) (ab195889)
> [Anti-PCNA antibody \[PC10\]](#) (ab29)
> [Anti-BrdU antibody \[BU1/75 \(ICR1\)\]](#) (ab6326)

Applications

Our [Abpromise guarantee](#) covers the use of **ab16667** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-FoFr	★★★★★	1/5000. Antigen retrieval: Boil tissue section in 10mM citrate buffer, pH 6.0 for 10 min followed by cooling at room temperature for 20 min.
ICC/IF	★★★★★	1/250.
IHC-Fr	★★★★★	1/1000. A higher dilution is recommended for frozen tissues than for FFPE tissues. We suggest a starting dilution of 1/500.
WB		Use at an assay dependent concentration. PubMed: 20562294
IHC-P	★★★★★	1/100.

Target

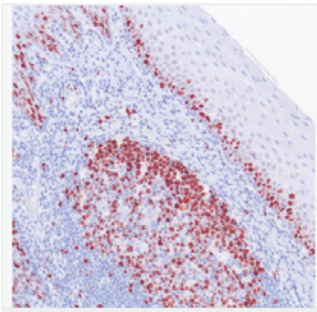
Function	Required to maintain individual mitotic chromosomes dispersed in the cytoplasm following nuclear envelope disassembly (PubMed:27362226). Associates with the surface of the mitotic chromosome, the perichromosomal layer, and covers a substantial fraction of the chromosome surface (PubMed:27362226). Prevents chromosomes from collapsing into a single chromatin mass by forming a steric and electrostatic charge barrier: the protein has a high net electrical charge and acts as a surfactant, dispersing chromosomes and enabling independent chromosome motility (PubMed:27362226). Binds DNA, with a preference for supercoiled DNA and AT-rich DNA (PubMed:10878551). Does not contribute to the internal structure of mitotic chromosomes (By similarity). May play a role in chromatin organization (PubMed:24867636). It is however unclear whether it plays a direct role in chromatin organization or whether it is an indirect consequence of its function in maintaining mitotic chromosomes dispersed.
Sequence similarities	Contains 1 FHA domain. Contains 16 K167R repeats. Contains 1 PPI-binding domain.
Developmental stage	Expression occurs preferentially during late G1, S, G2 and M phases of the cell cycle, while in cells in G0 phase the antigen cannot be detected (at protein level) (PubMed:6206131). Present at highest level in G2 phase and during mitosis (at protein level). In interphase, forms fiber-like structures in fibrillar-deficient regions surrounding nucleoli (PubMed:2674163, PubMed:8799815).
Post-translational modifications	Phosphorylated. Hyperphosphorylated in mitosis (PubMed:10502411, PubMed:10653604). Hyperphosphorylated form does not bind DNA.
Cellular localization	Chromosome. Nucleus. Nucleus, nucleolus. Associates with the surface of the mitotic chromosome, the perichromosomal layer, and covers a substantial fraction of the mitotic chromosome surface (PubMed:27362226). Associates with satellite DNA in G1 phase (PubMed:9510506). Binds tightly to chromatin in interphase, chromatin-binding decreases in mitosis when it associates with the surface of the condensed chromosomes (PubMed:15896774, PubMed:22002106). Predominantly localized in the G1 phase in the perinucleolar region, in the later phases it is also detected throughout the nuclear interior, being predominantly localized in the nuclear matrix (PubMed:22002106).

▼ [Information by UniProt](#)

Database links	Entrez Gene: 4288 Human Entrez Gene: 17345 Mouse Entrez Gene: 246042 Rat Omim: 176741 Human SwissProt: P46013 Human SwissProt: E9PVX6 Mouse SwissProt: Q61769 Mouse Unigene: 689823 Human see all
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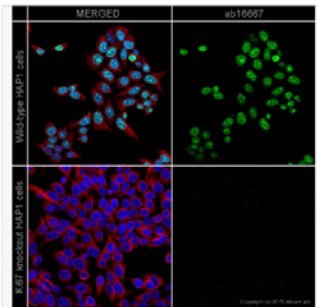
Alternative names	Antigen identified by monoclonal antibody Ki 67 antibody Antigen identified by monoclonal antibody Ki-67 antibody
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Anti-Ki67 antibody [SP6] images



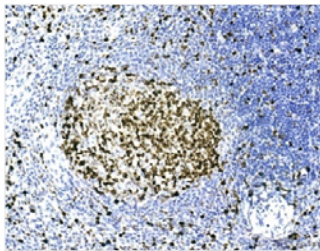
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Ki67 antibody [SP6] (ab16667)

Immunohistochemical analysis of human tonsil tissue labeling Ki-67 with ab16667 at 1/200. The HRP/AEC-staining procedure was used for detection.



Immunocytochemistry/ Immunofluorescence - Anti-Ki67 antibody [SP6] (ab16667)

ab16667 staining Ki67 in wild-type HAP1 cells (top panel) and Ki67 knockout HAP1 cells (bottom panel). The cells were fixed with 100% methanol for 5 minutes, permeabilized with 0.1% Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1 hour. The cells were then incubated with ab16667 at 1/250 dilution and ab195889 at 1/250 dilution (shown in pseudo colour red) overnight at +4°C, followed by a further incubation at room temperature for 1 hour with a goat secondary antibody to Rabbit IgG (Alexa Fluor® 488) (ab150081) at 2 µg/ml (shown in green). Nuclear DNA was labelled in blue with DAPI.

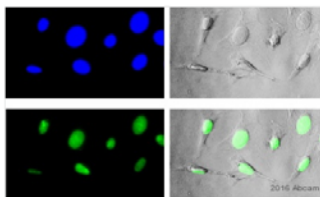


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Ki67 [SP6] antibody (ab16667)

Image courtesy of Carl Hobbs, Kings College London, U.K.

ab16667 staining Ki67 in common marmoset spleen by immunohistochemistry (formalin/PFA-fixed paraffin-embedded sections). Tissue was fixed with formaldehyde and a heat mediated antigen retrieval step was performed using citrate buffer. Samples were then blocked with 1% BSA for 10 minutes at 21°C followed by incubation with the primary antibody for 2 hours at 1/100. A biotin-conjugated goat anti-rabbit polyclonal was used as secondary antibody at a 1/250 dilution.

[See Abreview](#)

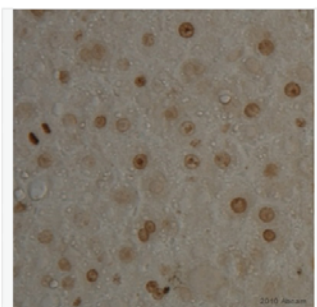


Immunocytochemistry/ Immunofluorescence - Anti-Ki67 antibody [SP6] (ab16667)

This image is courtesy of an anonymous abreview.

Immunocytochemistry/ Immunofluorescence analysis of human cardiac stem cells labeling Ki67 with ab16667 at 1/250 dilution. Cells were fixed in paraformaldehyde and permeabilized with Triton x-100, 0.01%. Cells were blocked in BSA for 1 hour at room temperature. A polyclonal chicken anti-rabbit Alex Fluor® 488 secondary antibody was used at 1/500 dilution.

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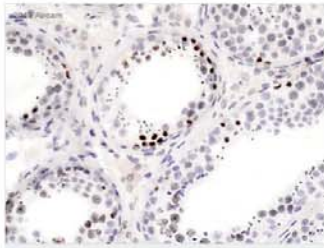
Immunohistochemistry (Formalin/PFA-fixed

ab16667 staining Ki67 in rat liver tissue sections by immunohistochemistry (IHC-P - formaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 1% BSA for 2 hours at 22°C. Samples were incubated with primary antibody (1/500 in PBS-T + 1% BSA) for 18 hours at 4°C. A biotin-conjugated goat anti-rabbit IgG monoclonal (1/2000) was used as the secondary antibody.

[See Abreview](#)

paraffin-embedded sections] - Anti-Ki67 antibody [SP6] (ab16667)

This image is courtesy of an anonymous Abreview

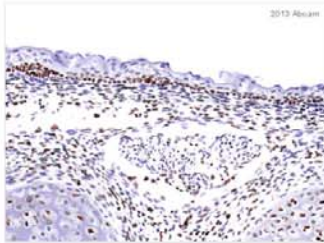


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Ki67 [SP6] antibody (ab16667)

Image Courtesy of Carl Hobbs, King College London, U.K.

ab16667 staining Ki67 in human testis by Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections). Tissue was fixed with formaldehyde and a heat mediated antigen retrieval step was performed using citrate buffer. Samples were then blocked with 1% BSA for 10 minutes at 21°C followed by incubation with the primary antibody for 2 hours at 1/100. A biotin-conjugated goat anti-rabbit polyclonal was used as secondary antibody at a 1/250 dilution.

[See Abreview](#)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Ki67 [SP6] antibody (ab16667)

Image Courtesy of Carl Hobbs, Kings College London, U.K.

ab16667 staining Ki67 in mouse embryonic skin tissue by Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections). Tissue was fixed with formaldehyde and a heat mediated antigen retrieval step was performed using citrate buffer. Samples were then blocked with 1% BSA for 10 minutes at 21°C followed by incubation with the primary antibody for 16 hours at 1/50. A biotin-conjugated goat anti-rabbit polyclonal was used as secondary antibody at a 1/250 dilution.

[See Abreview](#)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Ki67 [SP6] antibody (ab16667)

Image courtesy of Carl Hobbs, Kings College London, U.K.

ab16667 staining Ki67 in rat oesophagus by Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections). Tissue was fixed with formaldehyde and a heat mediated antigen retrieval step was performed using citrate buffer. Samples were then blocked with 1% BSA for 10 minutes at 21°C followed by incubation with the primary antibody for 30 minutes at 1/100. A biotin-conjugated goat anti-rabbit polyclonal was used as secondary antibody at a 1/250 dilution.

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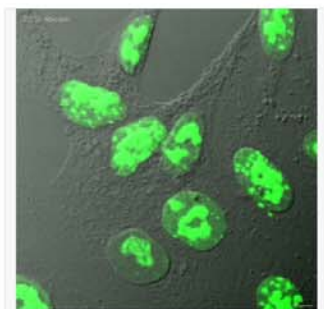


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Ki67 antibody [SP6] (ab16667)

Image courtesy of Jing Ma by Abreview.

ab16667 staining Ki67 in rat small intestine tissue by Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections). Tissue was fixed with formaldehyde and a heat mediated antigen retrieval step was performed using 10 mM citrate buffer pH 6.0. Samples were then blocked with 10% serum for 20 minutes at room temperature followed by incubation with the undiluted primary antibody for 30 minutes. A biotin-conjugated goat anti-rabbit polyclonal was used as secondary antibody at a 1/2000 dilution.

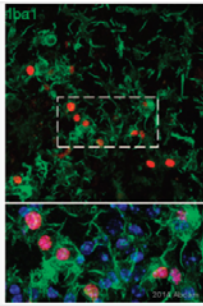
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ab16667 staining Ki67 - Proliferation Marker in human HEp-2 cells by ICC/IF (Immunocytochemistry/immunofluorescence). Cells were fixed with paraformaldehyde and permeabilized with Triton X-100 0.25% in PBS. Samples were incubated with primary antibody (1/50 in DPBS) for 1 hour at 21°C. An Atto488-conjugated Donkey anti-rabbit polyclonal (1/50) was used as the secondary antibody.

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Immunocytochemistry/ Immunofluorescence -
Anti-Ki67 antibody [SP6] (ab16667)
This image is courtesy of an Abreview submitted by
Peter Zentis



Immunohistochemistry (PFA perfusion fixed frozen sections) - Anti-Ki67 antibody [SP6] (ab16667)
This image is courtesy of an anonymous Abreview

ab16667 staining Ki67 (red) in transgenic mouse spinal cord tissue sections (depleted of oligodendrocytes) by Immunohistochemistry (PFA perfusion fixed frozen sections). Tissue samples were fixed by perfusion with paraformaldehyde, permeabilized with 0.5% Triton X-100 and blocked with 10% serum for 1 hour at 25°C; antigen retrieval was by heat mediation in 10 mM citrate buffer, pH 6, for 20 minutes at 97°C in a water bath. The sample was incubated with primary antibody (1/300 in PBS + 0.1% Triton X-100 + 1% serum) at 25°C for 16 hours. An Alexa Fluor® 594-conjugated donkey anti-rabbit IgG (H+L) polyclonal (1/700) was used as the secondary antibody. Counterstained with Iba1 (green) a marker for microglia and DAPI.

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Protocols

- [Immunohistochemistry protocols](#)
- [Immunocytochemistry & immunofluorescence protocols](#)
- [Western blot protocols](#)

References for Anti-Ki67 antibody [SP6] (ab16667)

This product has been referenced in:

- Fernández-Gil B *et al.* Melatonin protects rats from radiotherapy-induced small intestine toxicity. *PLoS One* **12**:e0174474 (2017). IHC-P ; Rat . [Read more \[PubMed: 28403142\]](#) »
- Liu Q *et al.* Plasmodium parasite as an effective hepatocellular carcinoma antigen glypican-3 delivery vector. *Oncotarget* **8**:24785-24796 (2017). IHC . [Read more \[PubMed: 28445973\]](#) »

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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) abreview for Anti-Ki67 antibody [SP6]

★★★★★ Excellent

Abcam **guarantees** this product to work in the species/application used in this Abreview.

Application	Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)	
Sample	Mouse Tissue sections (Skin)	
Antigen retrieval step	Heat mediated - Buffer/Enzyme Used: pH6 citrate	
Permeabilization	No	
Specification	Skin	
Blocking step	BSA as blocking agent for 30 minute (s) · Concentration: 1% · Temperature: 25°C	
Fixative	Formaldehyde	

Dr. Victoria Thompson
Verified customer
Submitted Jun 29 2016

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Q Could you recommend a Ki67 antibody (clone SP6) that

0 would work in IHC-Fr using mouse tissue?

Abcam community
Verified customer
Asked on Feb 22 2012

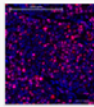
0 Either ab16667 or ab27619 would work for your chosen application and species.

Abcam Scientific Support
Answered on Feb 22 2012

0 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) abreview for Anti-Ki67 antibody [SP6]

★★★★★ Excellent

Abcam guarantees this product to work in the species/application used in this Abreview.

Application	Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)	
Sample	Human Tissue sections (lung carcinoma)	
Antigen retrieval step	Heat mediated - Buffer/Enzyme Used: Tris/EDTA pH 9.0	
Permeabilization	No	
Specification	lung carcinoma	
Blocking step	Serum as blocking agent for 1 hour (s) and 0 minute(s) - Concentration: 15% - Temperature: RT°C	
Fixative	10% NBF	

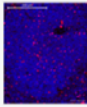
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Submitted Aug 21 2017

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0 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) abreview for Anti-Ki67 antibody [SP6]

★★★★★ Excellent

Abcam guarantees this product to work in the species/application used in this Abreview.

Application	Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)	
Sample	Mouse Tissue sections (spleen)	
Antigen retrieval step	Heat mediated - Buffer/Enzyme Used: Tris/EDTA pH 9.0	
Permeabilization	No	
Specification	spleen	
Blocking step	Serum as blocking agent for 1 hour (s) and 0 minute(s) - Concentration: 15% - Temperature: RT°C	
Fixative	10% NBF	

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Submitted Aug 19 2017

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0 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) abreview for Anti-Ki67 antibody [SP6]

★★★★★ Excellent

Application	Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)	
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

Sample	Pig Tissue sections (Liver)	
Antigen retrieval step	Heat mediated - Buffer/Enzyme Used: Citrate buffer (pH 6.0)	
Permeabilization	No	
Specification	Liver	
Blocking step	Serum as blocking agent for 30 minute(s) · Concentration: 10% · Temperature: 22°C	

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 Immunocytochemistry/ Immunofluorescence abreview for Anti-Ki67 antibody [SP6]


★★★★★ Excellent

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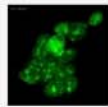

Application	Immunocytochemistry/ Immunofluorescence	
Sample	Human Cell (Cell line)	
Permeabilization	Yes - 0.5% Triton	
Specification	Cell line	
Blocking step	Serum as blocking agent for 30 minute(s) · Concentration: 5% · Temperature: RT°C	
Fixative	Paraformaldehyde	Dr. Tina Yuan Verified customer Submitted Apr 25 2017

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 Immunocytochemistry/ Immunofluorescence abreview for Anti-Ki67 antibody [SP6]

★★★★★ Excellent



Application	Immunocytochemistry/ Immunofluorescence	
Sample	Human Cell (HEK293)	
Permeabilization	Yes - 0.1% Triton X100	
Specification	HEK293	
Blocking step	Serum as blocking agent for 2 hour (s) and 0 minute(s) · Concentration: 5% · Temperature: 25°C	
Fixative	Formaldehyde	Abcam user community Verified customer Submitted Apr 10 2017

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 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) abreview for Anti-Ki67 antibody [SP6]

★★★★★ Excellent

Application	Immunohistochemistry (Formalin/PFA-fixed paraffin- embedded sections)	
Sample	Cow Tissue sections (ovary)	
Antigen retrieval step	Heat mediated - Buffer/Enzyme Used: 10 mM citrate, pH6.0	
Permeabilization	No	
Specification	ovary	
Blocking step	Serum as blocking agent for 30 minute(s) · Concentration: 10% · Temperature: 25°C	
Fixative	Formaldehyde	Abcam user community Verified customer Submitted Feb 09 2017

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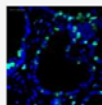
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 Immunohistochemistry (Frozen sections) abreview for

Anti-Ki67 antibody [SP6]

★★★★★ Excellent

Application	Immunohistochemistry (Frozen sections)
Sample	Mouse Tissue sections (Pancreatic Tumors)
Permeabilization	No
Specification	Pancreatic Tumors
Blocking step	Casein as blocking agent for 1 hour (s) and 0 minute(s) · Concentration: 0.25% · Temperature: 25°C
Fixative	Acetone



Abcam user community
Verified customer
Submitted Jan 13 2017

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