

Purified anti-mouse Ki-67 Recombinant Antibody

Catalog# / Size	163202 / 100 µg
Clone	QA18A32
Regulatory Status	RUO
Other Names	Mki67, Ki67, Ki-67, MIB-1, KIA
Isotype	Rat IgG1, κ
Description	The nuclear protein Ki-67 was first identified by the monoclonal antibody Ki-67, which was generated by immunizing mice with nuclei of the L428 Hodgkin lymphoma cell line. Ki-67 protein plays an essential role in ribosomal RNA transcription and cell proliferation. Expression of Ki-67 occurs during G1, S, G2, and M phase. While in G0 phase, the Ki-67 protein is not detectable. Ki-67 is strongly expressed in proliferating cells and has been reported as a prognostic marker in various tumors.

Product Details

Verified Reactivity	Mouse
Antibody Type	Recombinant
Host Species	Rat
Immunogen	E. coli expressed, N-terminal His-Thioredoxin-tagged, partial mKi-67 (1816-2163 aa) recombinant protein.
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Preparation	The antibody was purified by affinity chromatography.
Concentration	0.5 mg/mL
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C.
Application	IHC-F - Quality tested ICC - Verified
Recommended Usage	Each lot of this antibody is quality control tested by immunohistochemical staining on frozen tissue sections. For immunohistochemistry, a concentration range of 5.0 - 10.0 µg/mL is suggested. For immunocytochemistry, a concentration range of 1.25 - 5.0 µg/mL is recommended. It is recommended that the reagent be titrated for optimal performance for each application.
RRID	AB_2904309 (BioLegend Cat. No. 163202)

Antigen Details

Structure	325 kD protein containing a forkhead-associated (FHA) domain and 13 tandem repeats.
Distribution	Nucleus and chromosomes
Function	Required for cell cycle progression and proliferation.
Interaction	Interacts with KIF15; binds to MKI67IP through FHA domain
Biology Area	Cell Biology, Cell Cycle/DNA Replication, Immunology
Antigen References	<ol style="list-style-type: none">1. Starborg M, <i>et al.</i> 1996. <i>J. Cell. Sci.</i> 109:143.2. Byeon IJ, <i>et al.</i> 2005. <i>Nat. Struct. Mol. Biol.</i> 12:987.3. Yerushalmi R, <i>et al.</i> 2010. <i>Lancet. Oncol.</i> 11:174.4. Beltrami AP, <i>et al.</i> 2001. <i>N. Engl. J. Med.</i> 344:1750.

5. Sachsenberg N, *et al.* 1998. *J. Exp. Med.* 187:1295.
6. Nagy Z, *et al.* 1997. *Acta. Neuropathol.* 93:294.

Gene ID [4288](#)

Related Protocols

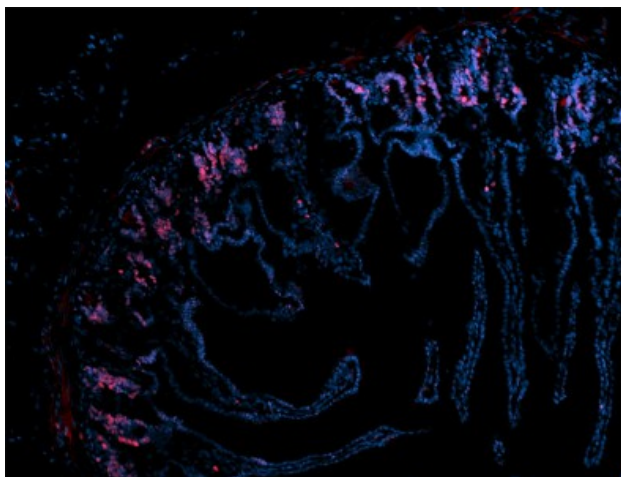
[Immunohistochemistry Protocol for Frozen Sections](#)

[Immunocytochemistry Staining Protocol](#)

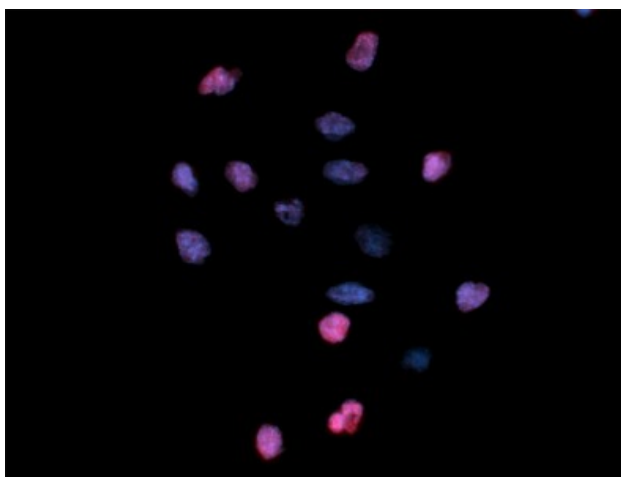
Other Formats

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Product Data



C57BL/6 mouse frozen intestine section was fixed with 4% paraformaldehyde (PFA) for 10 minutes, permeabilized with 0.5% Triton X-100 for ten minutes, and blocked with 5% FBS for 30 minutes at room temperature. Then the section was stained with 10 $\mu\text{g}/\text{mL}$ of purified anti-mouse Ki-67 (clone QA18A32) overnight at 4°C, followed by 2.5 $\mu\text{g}/\text{mL}$ of anti-rat IgG (clone Poly4054) Alexa Fluor® 647 (red) for two hours at room temperature. Nuclei were counterstained with DAPI (blue). The image was captured by 10X objective.



TE-71 cells were fixed with 1% paraformaldehyde (PFA) for ten minutes, permeabilized with 0.5% Triton X-100 for ten minutes, and blocked with 5% FBS for 30 minutes. Then the cells were intracellularly stained with 2.5 $\mu\text{g}/\text{mL}$ of purified anti-mouse Ki-67 (clone QA18A32) overnight at 4°C, followed by 2.5 $\mu\text{g}/\text{mL}$ of anti-rat IgG (clone Poly4054) Alexa Fluor® 647 (red) for two hours at room temperature. Nuclei were counterstained with DAPI (blue). The image was captured by 40X objective.

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