Purified anti-mouse/human Ki-67 Antibody

Catalog# / Size	151202 / 100 µg
Clone	11F6
Regulatory Status	RUO
Other Names	Mki67, Ki67, Ki-67, MIB-1, KIA
Isotype	Rat IgG2b, 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

Reactivity	Mouse, Human
Antibody Type	Monoclonal
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 immunocytochemistry. For immunocytochemistry, a concentration range of 1.25 - 5.0 µg/ml is recommended. For immunohistochemical staining on frozen tissue sections, the suggested use of this reagent is 1.25 - 5.0 µg per ml. It is recommended that the reagent be titrated for optimal performance for each application.
Product Citations	1. Coover RA, *et al.* 2018. Acta Neuropathol Commun. 6:127. PubMed 2. Lee YS, *et al.* 2018. Cell Host Microbe. 24:833. PubMed 3. Ren J, *et al.* 2018. Cell Cycle. 1.25. PubMed 4. Flores–Santibáñez F, *et al.* 2018. Front Immunol. 0.520138889. PubMed 5. Schrage R, *et al.* 2015. Nat Commun. 6: 10156. PubMed
RRID	AB_2566621 (BioLegend Cat. No. 151202)

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.
Biology Area	Cell Biology, Cell Cycle/DNA Replication

Antigen References

1. Starborg M, *et al.* 1996. *J. Cell. Sci.* 109:143.
2. Byeon IJ, *et al.* 2005. *Nat. Struct. Mol. Biol.* 12:987.
3. Yerushalmi R, *et al.* 2010. *Lancet. Oncol.* 11:174.
4. Beltrami AP, *et al.* 2001. *N. Engl. J. Med.* 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

17345

Related Protocols

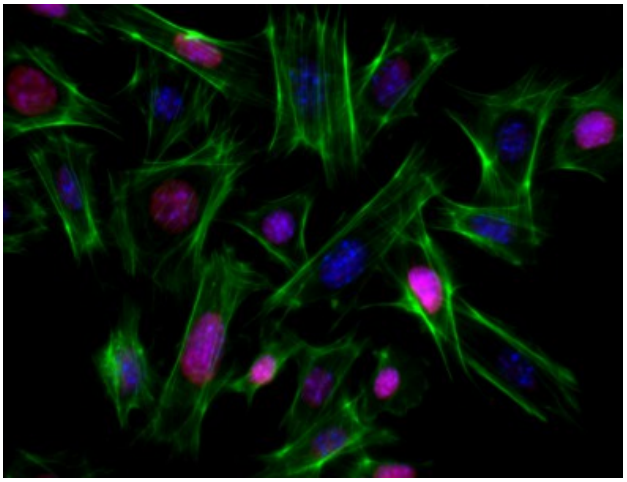
Immunohistochemistry Protocol for Frozen Sections

Immunocytochemistry Staining Protocol

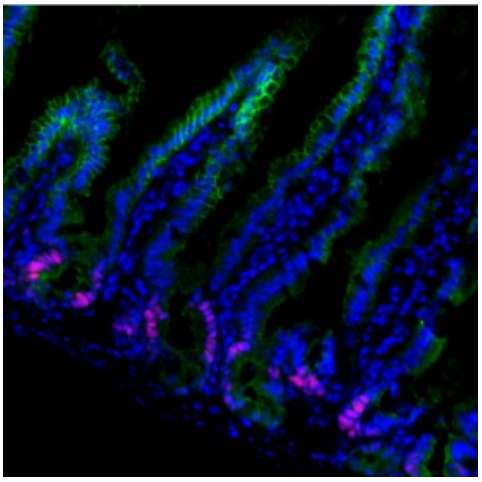
Other Formats

Purified anti-mouse/human Ki-67, Alexa Fluor® 488 anti-mouse/human Ki-67, Alexa Fluor® 647 anti-mouse/human Ki-67, Brilliant Violet 421™ anti-mouse/human Ki-67, PE anti-mouse/human Ki-67, Alexa Fluor® 594 anti-mouse/human Ki-67, FITC anti-mouse/human Ki-67, Brilliant Violet 650™ anti-mouse/human Ki-67, PE/Cyanine7 anti-mouse/human Ki-67, PE/Dazzle™ 594 anti-mouse/human Ki-67, PerCP/Cyanine5.5 anti-mouse/human Ki-67, Pacific Blue™ anti-mouse/human Ki-67

Product Data



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 5 µg/ml Ki-67 (clone 11F6) in 5% FBS overnight at 4°C, followed by Alexa Fluor® 647 Goat anti-rat IgG (clone Poly4054) for two hours and Alexa Fluor® 488 Phalloidin (green) staining for 20 minutes at room temperature. Nuclei were counterstained with DAPI (blue). The image was captured with a 40X objective.



C57BL/6 mouse frozen intestine section was fixed with 4% paraformaldehyde (PFA) for ten minutes, permeabilized with 0.5% Triton X-100 for ten minutes, and blocked with 5% FBS plus 5% goat serum for 30 minutes at room temperature. Then the section was stained with 5 µg/ml Ki-67 (clone 11F6) purified in 5% FBS overnight at 4°C, followed by 2.5 µg/mL of goat anti-rat IgG (clone Poly4054) Alexa Fluor® 647 (red) and 5 µg/ml of E-cadherin (clon

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