

APC/Cyanine7 anti-mouse/human Ki-67 Antibody

Catalog# / Size	151231 / 25 µg 151232 / 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

Verified Reactivity	Mouse, Human
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	<i>E. coli</i> 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 and conjugated with APC/Cyanine7 under optimal conditions.
Concentration	0.2 mg/mL
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	ICFC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is ≤ 0.5 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application.
Excitation Laser	Red Laser (633 nm)
RRID	AB_3662192 (BioLegend Cat. No. 151231) AB_3662192 (BioLegend Cat. No. 151232)

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](#)

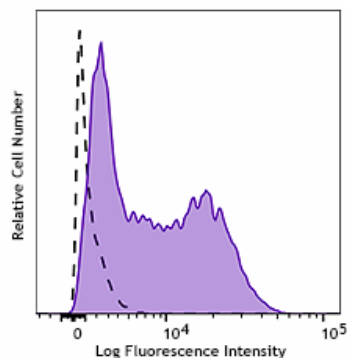
Related Protocols

- [True-Nuclear™ Transcription Factor Staining Protocol for 5mL Tubes](#)
- [Intracellular Flow Cytometry Staining Protocol](#)

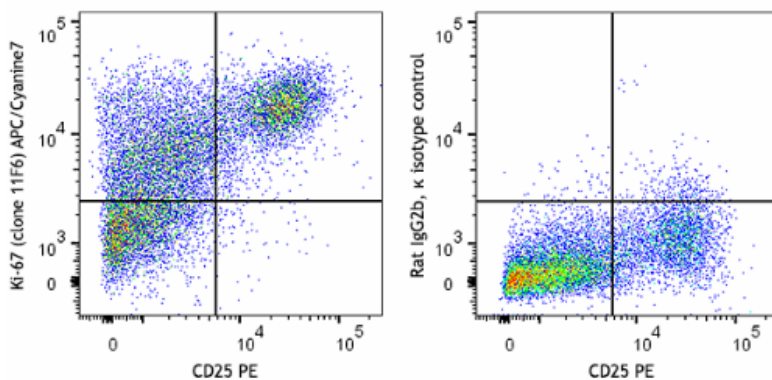
Other Formats

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, Brilliant Violet 711™ anti-mouse/human Ki-67, Brilliant Violet 510™ anti-mouse/human Ki-67, Brilliant Violet 785™ anti-mouse/human Ki-67, APC/Cyanine7 anti-mouse/human Ki-67

Product Data



Con A and IL-2 stimulated (2 days)
C57BL/6 mouse splenocytes were fixed and permeabilized with 70% ethanol. Cells were then stained with anti-mouse/human Ki-67 APC/Cyanine7 (filled histogram) or rat IgG2b, κ APC/Cyanine7 isotype control (open histogram).



Con A and IL-2 stimulated (2 days)
C57BL/6 mouse splenocytes were fixed and permeabilized with 70% ethanol. Cells were then stained with anti-mouse CD25 (clone PC61) PE and anti-mouse/human Ki-67 (clone 11F6) APC/Cyanine7 (left) or rat IgG2b, κ APC/Cyanine7 isotype control (right).

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8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587