Brilliant Violet 785™ anti-mouse/human Ki-67 Antibody

Catalog# / Size	151229 / 50 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	*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 and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 785™ 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. Brilliant Violet 785™ excites at 405 nm and emits at 785 nm. The bandpass filter 780/60 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel. Refer to your instrument manual or manufacturer for support. Brilliant Violet 785™ is a trademark of Sirigen Group Ltd. Learn more about Brilliant Violet™. This product is subject to proprietary rights of Sirigen Inc. and is made and sold under license from Sirigen Inc. The purchase of this product conveys to the buyer a non-transferable right to use the purchased product for research purposes only. This product may not be resold or incorporated in any manner into another product for resale. Any use for therapeutics or diagnostics is strictly prohibited. This product is covered by U.S. Patent(s), pending patent applications and foreign equivalents.
Excitation Laser	Violet Laser (405 nm)
RRID	AB_3662393 (BioLegend Cat. No. 151229)

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

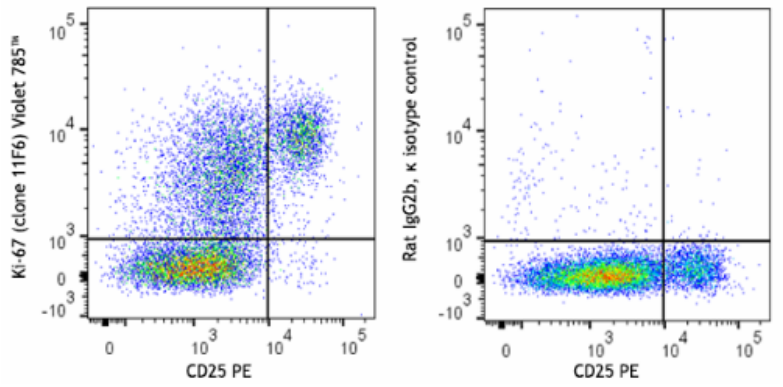
Related Protocols

- True-Nuclear™ Transcription Factor Staining Protocol for 5mL Tubes
- Ki-67 Flow Cytometry Staining Protocol
- Intracellular Flow Cytometry Staining Protocol

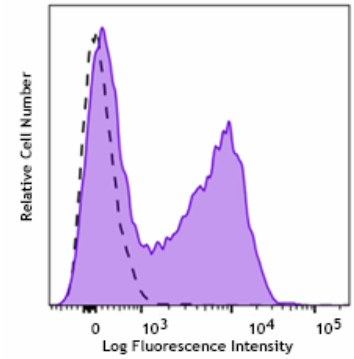
Other Formats

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 + 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) Brilliant Violet 785™ (left) or rat IgG2b, κ Brilliant Violet 785™ isotype control (right).



Con-A + 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 (clone 11F6) Brilliant Violet 785™ (filled histogram) or rat IgG2b, κ Brilliant Violet 785™ isotype control (open histogram).

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