

Ki-67 Monoclonal Antibody (SolA15), Brilliant Violet™ 480, eBioscience™

Product Details	
Size	25 µg
Species Reactivity	Dog, Cynomolgus monkey, Human, Mouse, Non-human primate, Rat
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), Brilliant Violet™ 480, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	SolA15
Conjugate	Brilliant Violet™ 480
Excitation/Emission Max	437/478 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with BSA
Contains	0.09% sodium azide
Storage conditions	4°C, store in dark, DO NOT FREEZE!
RRID	AB_2925645

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	1.0 µg/test	-

Product Specific Information

Description: The monoclonal antibody SolA15 recognizes mouse and rat Ki-67, a 300 kDa nuclear protein. Ki-67 is present during all active phases of the cell cycle (G1, S, G2, and mitosis), but is absent from resting cells (G0). Ki-67 is detected within the nucleus during interphase but redistributes to the chromosomes during mitosis. Ki-67 is used as a marker for determining the growth fraction of a given population of cells. In studies of tumor cells, the "Ki-67 labeling index" refers to the number of Ki-67 positive cells within the population and this is used to predict outcome of particular cancer types. Ki-67 has been shown to interact with the DNA-bound protein chromobox protein homolog 3 (CBX3) (heterochromatin).

The SolA15 antibody also recognizes human, non-human primate and canine Ki-67.

Applications Reported: This SolA15 antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

Applications Tested: This SolA15 antibody has been tested by intracellular staining followed by flow cytometric analysis of mouse splenocytes using the Foxp3/Transcription Factor Staining Buffer Set (Product # 00-5523-00) and protocol. Please refer to "Staining Intracellular Antigens for Flow Cytometry, Protocol B: One step protocol for intracellular (nuclear) proteins" located at Flow Protocols. This may be used at less than or equal to 1.0 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Brilliant Violet™ 480 (BV480) is a dye that emits at 479 nm and is intended for use on cytometers equipped with a violet (405 nm) laser. Please make sure that your instrument is capable of detecting this fluorochrome.

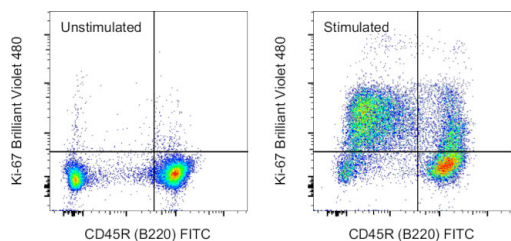
When using two or more Super Bright, Brilliant Violet™, Brilliant Ultra Violet™, or other polymer dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401-42) or Brilliant Stain Buffer™ (Product # 00-4409-75) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer or Brilliant Stain Buffer for more information.

Our internal testing suggests that Brilliant Violet™ 480 (BV480) is not compatible with methanol-based fixation.

Excitation: 440 nm; Emission: 479 nm; Laser: Violet Laser.

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Product Images For Ki-67 Monoclonal Antibody (SolA15), Brilliant Violet™ 480, eBioscience™



Ki-67 Antibody (414-5698-80) in Flow

C57BL/6 mouse splenocytes were unstimulated (left) or stimulated for 48 hours with CD3e Monoclonal Antibody, Functional Grade (Product # 16-0031-85) (right). Cells were then surface-stained with CD45R (B220) Monoclonal Antibody, FITC (Product # 11-0452-82) and stained intracellularly, using the Foxp3 /Transcription Factor Staining Buffer Set (Product # 00-5523-00) and protocol, with 1.0 µg of Ki-67 Monoclonal Antibody, Brilliant Violet 480. Viable cells in the lymphocyte gate were used for analysis, as determined by LIVE/DEAD™ Fixable Blue Dead Cell Stain Kit (Product # L34962).

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