Ki-67 Monoclonal Antibody (SolA15), Brilliant Ultra Violet™ 805, 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 Ultra Violet™ 805, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	SolA15
Conjugate	Brilliant Ultra Violet™ 805
Excitation/Emission Max	349/804 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_2896150

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.25 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 stimulated mouse splenocytes. This may be used at less than or equal to 0.25 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 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Brilliant Ultra Violet™ 805 (BUV805) is a tandem dye that emits at 797 nm and is intended for use on cytometers equipped with an ultraviolet (355 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) 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.

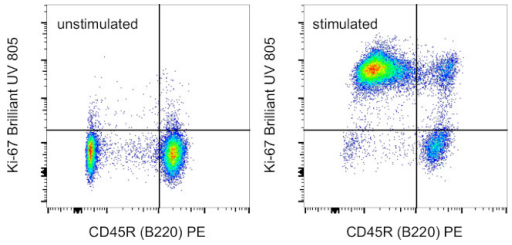
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Our internal testing suggests that Brilliant Ultra Violet™ 805 (BUV805) is compatible with short-term methanol-based fixation, but should not be stored in buffers containing methanol for longer than one hour.

Excitation: 355 nm; Emission: 797 nm; Laser: Ultraviolet Laser.

Product Images For Ki-67 Monoclonal Antibody (SolA15), Brilliant Ultra Violet™ 805, eBioscience™



Ki-67 Antibody (368-5698-80) in Flow
C57BL/6 mouse splenocytes were unstimulated (left) or stimulated for 48 hours with immobilized CD3e Monoclonal Antibody, Functional Grade (Product # 16-0031-85) (right). Cells were then surface-stained with CD45R (B220) Monoclonal Antibody, PE (Product # 12-0452-82) and stained intracellularly, using the Foxp3 /Transcription Factor Staining Buffer Set (Product # 00-5523-00) and protocol, with 0.125 µg of Ki-67 Monoclonal Antibody, Brilliant Ultra Violet 805 (BUV805). Viable cells in the lymphocyte gate were used for analysis, as determined by LIVE /DEAD™ Fixable Violet Dead Cell Stain Kit (Product # L34958).