

Ki-67 Monoclonal Antibody (SolA15), PE-Cyanine5, eBioscience™

Product Details

Size	100 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), PE-Cyanine5, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	SolA15
Conjugate	PE-Cyanine5
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2802209

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.5 µg/test	8 Publications

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.

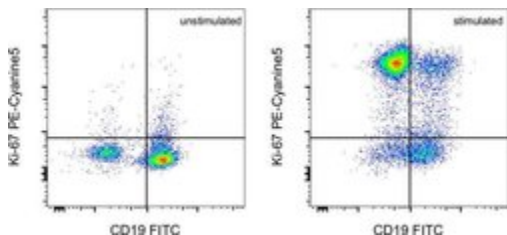
Applications Tested: This SolA15 antibody has been tested by intracellular staining followed by flow cytometric analysis of stimulated mouse splenocytes using the Foxp3/Transcription Factor Staining Buffer Set (Product # 00-5523-00) and protocol. Please refer to "Staining Intracellular Antigens for Flow Cytometry, Protocol B: One step protocol for intracellular (nuclear) proteins" located at thermofisher.com. This may be used at less than or equal to 0.5 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.

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 # 00-8222-49) (100 μ L of cell sample + 100 μ L of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333-57) 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.

Excitation: 488-561 nm; Emission: 667 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser

Product Images For Ki-67 Monoclonal Antibody (SolA15), PE-Cyanine5, eBioscience™



Ki-67 Antibody (15-5698-82) 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 surface stained with CD19 Monoclonal Antibody, FITC (Product # 11-0866-82) then fixed and permeabilized using the Foxp3 Staining Buffer Set (Product # 00-5523-00). Cells were then intracellularly stained with 0.25 μ g of Ki-67 Monoclonal Antibody, PE-Cyanine5. Total viable cells were used for analysis, as determined by Fixable Viability Dye eFluor 506 (Product # 65-0866-18).

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8 References

Flow Cytometry (8)

Cell reports

An mTORC1-dependent switch orchestrates the transition between mouse spermatogonial stem cells and clones of progenitor spermatogonia.

"Published figure using Ki-67 monoclonal antibody (Product # 15-5698-82) in Flow Cytometry"

Authors: Suzuki S,McCarrey JR,Hermann BP

Species

Not Applicable

Dilution

Not Cited

Year

2021

Cell reports

Targeting Phosphatidylserine Enhances the Anti-tumor Response to Tumor-Directed Radiation Therapy in a Preclinical Model of Melanoma.

"Published figure using Ki-67 monoclonal antibody (Product # 15-5698-82) in Flow Cytometry"

Authors: Budhu S,Giese R,Gupta A,Fitzgerald K,Zappasodi R,Schad S,Hirschhorn D,Campesato LF,De Henau O, Gigoux M,Liu C,Mazo G,Deng L,Barker CA,Wolchok JD,Merghoub T

Species

Not Applicable

Dilution

Not Cited

Year

2021

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More applications with references on thermofisher.com

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