

Ki-67 Monoclonal Antibody (SolA15), PE-eFluor™ 610, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Dog, Cynomolgus monkey, Human, Mouse, Non-human primate, Rat
Published Species	Human, Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), PE-eFluor™ 610, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	SolA15
Conjugate	PE-eFluor™ 610
Excitation/Emission Max	565/606 nm
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_2574620

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.125 µg/test	52 Publications
Functional Assay (FN)	-	1 Publication

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 and flow cytometric analysis of mouse splenocytes using the Foxp3/Transcription Factor Staining Buffer Set (cat. 00-5523) and protocol. Refer to Best Protocols for Staining Protocol (refer to Protocol B: One-step protocol for intracellular (nuclear) proteins). This can be used at less than or equal to 0.125 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.

PE-eFluor® 610 can be excited with laser lines from 488-561 nm and emits at 607 nm. We recommend using a 610/20 band pass filter (equivalent to PE-Texas Red®). Please make sure that your instrument is capable of detecting this fluorochrome.

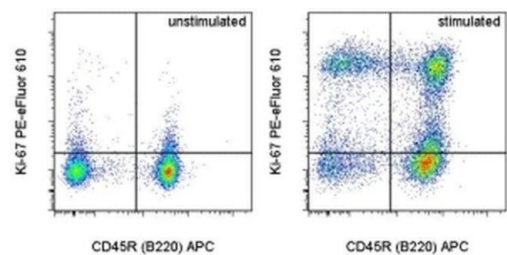
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 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.

Excitation: 488-561 nm; Emission: 607 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For Ki-67 Monoclonal Antibody (SolA15), PE-eFluor™ 610, eBioscience™



Ki-67 Antibody (61-5698-82) in Flow
Intracellular staining of unstimulated (left) or 2-day Anti-Mouse CD3e Functional Grade Purified (Product # 16-0031-82)-stimulated (right) BALB/c splenocytes with Anti-Human/Mouse CD45R (B220) APC (Product # 17-0452-82) and 0.06 µg of Anti-Mouse/Rat Ki-67 PE-eFluor® 610 (right) using the Foxp3/Transcription Factor Staining Buffer Set (Product # 00-5523-00) and protocol. Cells in the lymphocyte gate were used for analysis.

[View more figures on thermofisher.com](https://www.thermofisher.com)

Flow Cytometry (52)

Frontiers in immunology

Transformation of primary murine peritoneal mast cells by constitutive KIT activation is accompanied by loss of *Cdkn2a/Arf* expression.

"Published figure using Ki-67 monoclonal antibody (Product # 61-5698-82) in Flow Cytometry"

Authors: Capellmann S, Sonntag R, Schüler H, Meurer SK, Gan L, Kauffmann M, Horn K, Königs-Werner H, Weiskirchen R, Liedtke C, Huber M

Year
2023

Haematologica

B-cell antigen receptor expression and phosphatidylinositol 3-kinase signaling regulate genesis and maintenance of mouse chronic lymphocytic leukemia.

"Published figure using Ki-67 monoclonal antibody (Product # 61-5698-82) in Flow Cytometry"

Authors: Schmid VK, Khadour A, Ahmed N, Brandl C, Nitschke L, Rajewsky K, Jumaa H, Hobeika E

Year
2022

[View more Flow references on thermofisher.com](#)

Functional Assay (1)

PloS one

Myeloid cells expressing VEGF and arginase-1 following uptake of damaged retinal pigment epithelium suggests potential mechanism that drives the onset of choroidal angiogenesis in mice.

Authors: Liu J, Copland DA, Horie S, Wu WK, Chen M, Xu Y, Paul Morgan B, Mack M, Xu H, Nicholson LB, Dick AD

Year
2015

More applications with references on thermofisher.com

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