Ki-67 Monoclonal Antibody (SolA15), PE-Cyanine7, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Dog, Cynomolgus monkey, Human, Mouse, Non-human primate, Rat
Published Species	Mouse, Human
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), PE-Cyanine7, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	SolA15
Conjugate	PE-Cyanine7
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_11220070

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.125 µg/test	19 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 analysisusing the Foxp3 /Transcription Factor Staining Buffer Set (cat. 00-5523) and protocol. Please see Best Protocols Section (Staining intracellular Antigens for Flow Cytometry) 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 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

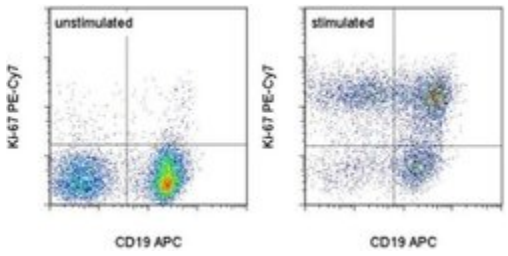
Light sensitivity: This tandem dye is sensitive photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL cell sample + 100 µL 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: 775 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-Cyanine7, eBioscience™



Ki-67 Antibody (25-5698-82) in Flow
C57Bl/6 splenocytes were unstimulated (left) or stimuated for 2 days with Anti-Mouse CD3 Functional Grade Purified (Product # 16-0031-82) (right). Cell were stained with Anti-Mouse CD19 APC (Product # 17-0193-82) followed by fixation and permeabilizatin using the Foxp3 Staining Buffer Set (Product # 00-5523-00) and subsequently stained with 0.06 µg of Anti-Mouse/Rat Ki-67 PE-Cyanine7. Cells in the lymphocyte gate were used for analysis.

20 References

Flow Cytometry (19)

Nature communications

Thymic iNKT single cell analyses unmask the common developmental program of mouse innate T cells.

"25-5698 was used in Flow cytometry/Cell sorting to highlight the common requirements for the development of innate-like T cells with a focus on how Hivep3 impacts the maturation of these lymphocytes."

Authors: Harsha Krovi S,Zhang J,Michaels-Foster MJ,Brunetti T,Loh L,Scott-Browne J,Gapin L

Species
Mouse

Dilution
Not Cited

Year
2020

Nature communications

Lumenal Galectin-9-Lamp2 interaction regulates lysosome and autophagy to prevent pathogenesis in the intestine and pancreas.

"25-5698 was used in Flow cytometry/Cell sorting to show in gut epithelial cells, galectin-9 is enriched in lysosomes and predominantly binds to lysosome-associated membrane protein 2 (Lamp2) in a Asn(N)-glycan dependent manner."

Authors: Sudhakar JN,Lu HH,Chiang HY,Suen CS,Hwang MJ,Wu SY,Shen CN,Chang YM,Li FA,Liu FT,Shui JW

Species
Mouse

Dilution
1:200

Year
2020

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

Species
Not Applicable

Dilution
Not Cited

Year
2015

More applications with references on thermofisher.com