Ki-67 Monoclonal Antibody (SolA15), eFluor 450, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Dog, Cynomolgus monkey, Human, Mouse, Non-human primate, Rat
Published Species	Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), eFluor 450, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	SolA15
Conjugate	eFluor® 450
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_11149124

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	0.125 µg/test	20 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.

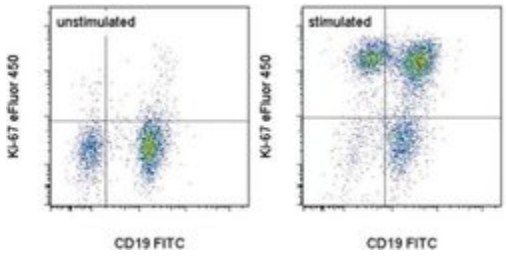
Applications Tested: This SolA15 antibody has been tested by intracellular staining and flow cytometric analysis of stimulated mouse splenocytes using the Foxp3/Transcription Factor Staining Buffer Set (cat. 00-5523). This can be used at less than or equal to 0.125 µg per test. A test is defined as the 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.

eFluor® 450 is an alternative to Pacific Blue®. eFluor® 450 emits at 445 nm and is excited with the Violet laser (405 nm). Please make sure that your instrument is capable of detecting this fluorochome.

Excitation: 405 nm; Emission: 445 nm; Laser: Violet Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For Ki-67 Monoclonal Antibody (SolA15), eFluor 450, eBioscience™



Ki-67 Antibody (48-5698-82) in Flow
C57Bl/6 splenocytes were unstimulated (left) or stimulated for 2 days with Anti-Mouse CD3 Functional Grade Purified (Product # 16-0031-82) (right). Cells were surface stained with Anti-Mouse CD19 FITC (Product # 11-0193-82) then fixed and permeabilized with the Foxp3 Staining Buffer Set (Product # 00-5523-00) and intracellularly stained with 0.06 µg of Anti-Mouse/Rat Ki-67 eFluor® 450. Total viable cells, as determined by Fixable Viability Dye eFluor® 780 (Product # 65-0865-14), were used for analysis.

22 References

Immunocytochemistry (1)

The Journal of investigative dermatology

Paracrine Activin-A Signaling Promotes Melanoma Growth and Metastasis through Immune Evasion.

"48-5698 was used in Immunocytochemistry to test whether a potential tumorigenic role for Activin signaling in melanoma may be curtailed in xenografts by the absence of a functional immune system."

Authors: Donovan P,Dubey OA,Kallioinen S,Rogers KW,Muehlethaler K,Müller P,Rimoldi D,Constam DB

Species
Mouse

Dilution
Not Cited

Year
2017

Flow Cytometry (20)

Nature communications

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

"48-5698 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

Cell reports

Coordinated Viral Control by Cytotoxic Lymphocytes Ensures Optimal Adaptive NK Cell Responses.

"48-5698 was used in Flow cytometry/Cell sorting to support a mechanism whereby cytotoxic innate and adaptive lymphocytes cooperate to ensure viral clearance and the establishment of robust clonal NK cell responses."

Authors: Diaz-Salazar C,Sun JC

Species
Mouse

Dilution
Not Cited

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