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)	-	1 Publication
Immunofluorescence (IF)	-	1 Publication
Flow Cytometry (Flow)	0.125 µg/test	16 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

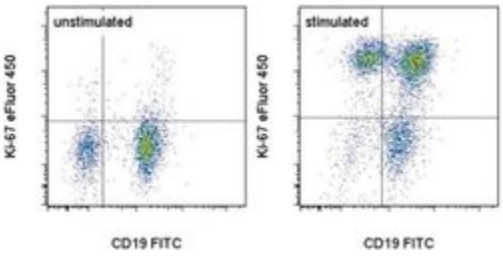
number should be determined empirically but can range from 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

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.

19 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

Immunofluorescence (1)

The Journal of investigative dermatology

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Species
Mouse

Dilution
Not Cited

Year
2017

Flow Cytometry (16)

EBioMedicine

Targeting myeloid-derived suppressor cells with colony stimulating factor-1 receptor blockade can reverse immune resistance to immunotherapy in indoleamine 2,3-dioxygenase-expressing tumors.

"48-5698 was used in Flow cytometry/Cell sorting to study the invovlement of myeloid-derived suppressor cells in IDO-expressing B16 tumour progression and therapy resistance."

Authors: Holmgaard RB,Zamarin D,Lesokhin A,Merghoub T,Wolchok JD

Species
Mouse

Dilution
Not Cited

Year
2016

Immunity

Maternal-Derived Hepatitis B Virus e Antigen Alters Macrophage Function in Offspring to Drive Viral Persistence after Vertical Transmission.

"48-5698 was used in Flow cytometry/Cell sorting to show in mice, that maternal hepatitis B virus (HBV) impairs CD8(+) T cell responses to HBV in her offspring, resulting in HBV persistence."

Authors: Tian Y,Kuo CF,Akbari O,Ou JH

Species
Mouse

Dilution
Not Cited

Year
2016

View more Flow references on thermofisher.com

More applications with references on thermofisher.com

FN (1)