Ki-67 Monoclonal Antibody (SolA15), PE, 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, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	SolA15
Conjugate	PE
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_11150954

Applications	Tested Dilution	Publications
Immunohistochemistry (PFA fixed) (IHC (PFA))	-	2 Publications
Flow Cytometry (Flow)	0.06 µg/test	28 Publications
Functional Assay (FN)	-	2 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 flow cytometric analysis, and intracellular staining followed by flow cytometric analysis.

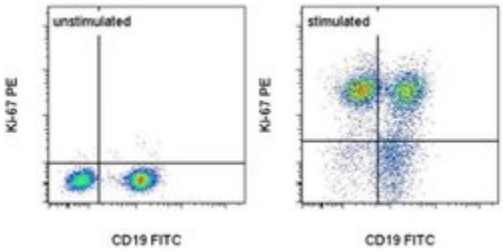
Applications Tested: This SolA15 antibody has been tested by intracelllar staining and flow cytometric analysis of stimulated mouse splenocytes using the Foxp3/Transcription Factor Buffer Set (cat. 00-5523) and protocol. Please see Best Protocols Section (Staining intracellular Antigens for Flow Cytometry) for staining protocol (refer to Protocol B: One-step protocol for intracellular (nuclear) proteins). This can be used at less than or equal to 0.06 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.

Excitation: 488-561 nm; Emission: 578 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, eBioscience™



Ki-67 Antibody (12-5698-82) 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 0.03 µg of Anti-Mouse/Rat Ki-67 PE. Total viable cells, as determined by Fixable Viability Dye eFluor® 450 (Product # 65-0863-14), were used for analysis.

32 References

Immunohistochemistry (PFA fixed) (2)

Journal of the American Society of Nephrology : JASN

Tissue-Resident Macrophages Promote Renal Cystic Disease.

"12-5698 was used in Immunohistochemistry (PFA fixed) to investigate the role of resident macrophages during rapid cyst progression in mice."

Authors: Zimmerman KA,Song CJ,Li Z,Lever JM,Crossman DK,Rains A,Aloria EJ,Gonzalez NM,Bassler JR,Zhou J, Crowley MR,Revell DZ,Yan Z,Shan D,Benveniste EN,George JF,Mrug M,Yoder BK

Species
Mouse

Dilution
Not Cited

Year
2019

eLife

Suppression of ischemia in arterial occlusive disease by JNK-promoted native collateral artery development.

"12-5698 was used in Immunofluorescence to investigate the role of the MLK-JNK signalling pathway in regulating protective mechanisms against ischemia in arterial occlusive disease."

Authors: Ramo K,Sugamura K,Craige S,Keaney JF,Davis RJ

Species
Mouse

Dilution
1:200

Year
2016

Flow Cytometry (28)

Frontiers in cellular neuroscience

Pax6 Lengthens G1 Phase and Decreases Oscillating Cdk6 Levels in Murine Embryonic Cortical Progenitors.

"12-5698 was used in Flow cytometry/Cell sorting to investigate whether, in addition to Cdk6, other Pax6-regulated cell cycle genes are likely to be primary mediators of Pax6's actions on cortical progenitor cell cycles."

Authors: Mi D,Manuel M,Huang YT,Mason JO,Price DJ

Species
Mouse

Dilution
1:500

Year
2021

Nature immunology

Transcriptome dynamics of CD4^{+} T cells during malaria maps gradual transit from effector to memory.

"12-5698 was used in Flow cytometry/Cell sorting to apply single-cell RNA sequencing and computational modelling to track memory development during Plasmodium infection and treatment."

Authors: Soon MSF,Lee HJ,Engel JA,Straube J,Thomas BS,Pernold CPS,Clarke LS,Laohamonthonkul P,Haldar RN, Williams CG,Lansink LIM,Moreira ML,Bramhall M,Koufariotis LT,Wood S,Chen X,James KR,Lönnberg T,Lane SW,Belz GT,Engwerda CR,Khoury DS,Davenport MP,Svensson V,Teichmann SA,Haque A

Species
Mouse

Dilution
1:200

Year
2020

View more Flow references on thermofisher.com

More applications with references on thermofisher.com

FN (2)