

# Ki-67 Monoclonal Antibody (SolA15), PerCP-eFluor 710, 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), PerCP-eFluor 710, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	SolA15
Conjugate	PerCP-eFluor™ 710
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_11040981

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Flow Cytometry (Flow)	0.06 µg/test	47 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 Buffer Set (cat. 00-5521) 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<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

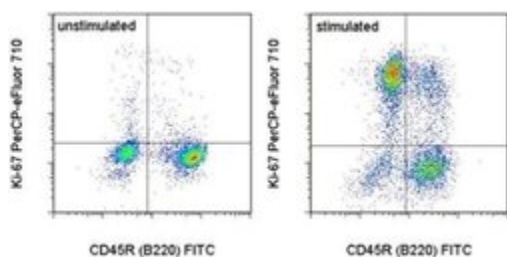
PerCP-eFluor® 710 can be used in place of PE-Cy5, PE-Cy5.5 or PerCP-Cy5.5. PerCP-eFluor® 710 emits at 710 nm and is excited with the blue laser (488 nm). Please make sure that your instrument is capable of detecting this fluorochrome. For a filter configuration, we recommend using the 685 LP dichroic mirror and 710/40 band pass filter, however the 695/40 band pass filter is an acceptable alternative.

Our testing indicates that PerCP-eFluor® 710 conjugated antibodies are stable when stained samples are exposed to freshly prepared 2% formaldehyde overnight at 4°C, but please evaluate for alternative fixation protocols.

Excitation: 488 nm; Emission: 710 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

## Product Images For Ki-67 Monoclonal Antibody (SolA15), PerCP-eFluor 710, eBioscience™



### Ki-67 Antibody (46-5698-82) in Flow

Intracellular staining of BALB/c splenocytes unstimulated (left) or stimulated for 2 days with immobilized Anti-Mouse CD3 Functional Grade (Product # 16-0031-82) (right) with Anti-Human/Mouse CD45R (B220) FITC (Product # 11-0452-82) and 0.03 µg of Anti-Mouse/Rat Ki-67 PerCP-eFluor® 710 using the Foxp3/Transcription Factor 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)

## Immunohistochemistry (1)

Arteriosclerosis, thrombosis, and vascular biology

### Myeloid -Catenin Deficiency Exacerbates Atherosclerosis in Low-Density Lipoprotein Receptor-Deficient Mice.

"46-5698 was used in Immunohistochemistry to investigate the impact of -catenin expression on macrophage functions and atherosclerosis development."

Authors: Wang F,Liu Z,Park SH,Gwag T,Lu W,Ma M,Sui Y,Zhou C

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2018

## Flow Cytometry (47)

Frontiers in cellular neuroscience

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

"Published figure using Ki-67 monoclonal antibody (Product # 46-5698-82) in Flow Cytometry"

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

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2021

Cell reports

### An mTORC1-dependent switch orchestrates the transition between mouse spermatogonial stem cells and clones of progenitor spermatogonia.

"Published figure using Ki-67 monoclonal antibody (Product # 46-5698-82) in Flow Cytometry"

Authors: Suzuki S,McCarrey JR,Hermann BP

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2021

[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

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