

# Ki-67 Monoclonal Antibody (SolA15), FITC, eBioscience™

## Product Details

Size	25 µg
Species Reactivity	Dog, Cynomolgus monkey, Human, Mouse, Non-human primate, Rat
Published Species	Rat, Mouse, Human, Guinea pig
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), FITC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	SolA15
Conjugate	FITC
Excitation/Emission Max	498/517 nm
Form	Liquid
Concentration	0.5 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_11151689

Applications	Tested Dilution	Publications
Western Blot (WB)	-	1 Publication
Immunohistochemistry (IHC)	Assay-Dependent	69 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	3 Publications
Immunohistochemistry (PFA fixed) (IHC (PFA))	-	2 Publications
Immunohistochemistry (Frozen) (IHC (F))	-	1 Publication
Immunocytochemistry (ICC/IF)	10 µg/mL	44 Publications
Flow Cytometry (Flow)	0.25 µg/test	104 Publications
Functional Assay (FN)	-	1 Publication
Miscellaneous PubMed (Misc)	-	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.

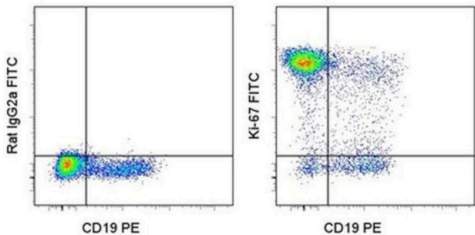
**Applications Reported:** This SolA15 antibody has been reported for use in intracellular staining followed by flow cytometric analysis, immunohistochemical staining, and immunocytochemistry.

**Applications Tested:** This SolA15 antibody has been tested by immunocytochemistry on fixed and permeabilized OLN93 cells at less than or equal to 10 µg/mL. It has also been tested by intracellular staining and flow cytometric analysis of stimulated mouse splenocytes using the Foxp3/Transcription Factor Staining Buffer Set (cat 00-5523) and protocol. For flow application this can be used at less than or equal to 0.25 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.

Excitation: 488 nm; Emission: 520 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

**Product Images For Ki-67 Monoclonal Antibody (SolA15), FITC, eBioscience™**

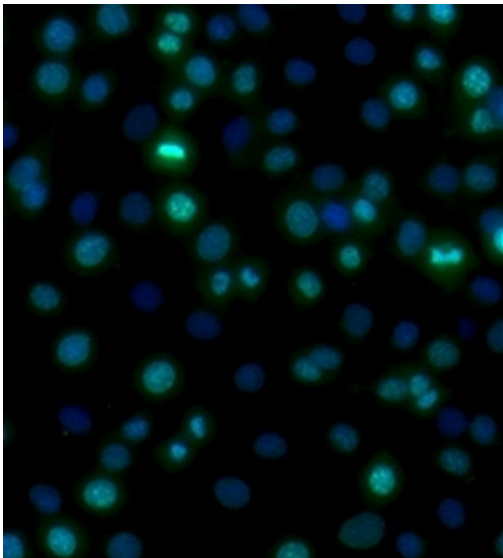


**Ki-67 Antibody (11-5698-80) in Flow**

C57Bl/6 splenocytes stimulated for 2 days with plate-bound Anti-Mouse CD3e Functional Grade Purified (Product # 16-0031-82) were surface stained with Anti-Mouse CD19 PE (Product # 12-0193-82). Cells were then fixed and permeabilized using the Foxp3 Staining Buffer Set (Product # 00-5523-00) and stained intracellularly with 0.125 µg of Rat IgG2a K Isotype Control FITC (Product # 11-4321-42) (left) or 0.125 µg of Anti-Mouse/Rat Ki-67 FITC (right).

**Ki-67 Antibody (11-5698-80) in ICC/IF**

Immunocytochemistry of fixed and permeabilized OLN93 cells stained with 10 µg/mL of Anti-Mouse/Rat Ki-67 FITC and counterstained with DAPI. Dividing cells are co-stained with Ki-67 (green) and DAPI (blue).



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Western Blot (1)

eLife	Year 2016
<b>The cell proliferation antigen Ki-67 organises heterochromatin.</b>	Species Human Mouse
"Published figure using Ki-67 monoclonal antibody (Product # 11-5698-82) in Flow Cytometry"	
Authors: Sobecki M,Mrouj K,Camasses A,Parisis N,Nicolas E,Lières D,Gerbe F,Prieto S,Krasinska L,David A,Eguren M, Birling MC,Urbach S,Hem S,Déjardin J,Malumbres M,Jay P,Dulic V,Lafontaine DLj,Feil R,Fisher D	

Immunohistochemistry (69)

Scientific reports	Year 2022
<b>Application of an instructive hydrogel accelerates re-epithelialization of xenografted human skin wounds.</b>	
"Published figure using Ki-67 monoclonal antibody (Product # 11-5698-82) in Immunocytochemistry"	
Authors: Sparks HD,Mandla S,Vizely K,Rosin N,Radicic M,Biernaskie J	

Disease models & mechanisms	Year 2022
<b>Bisphenol-A impairs synaptic formation and function by RGS4-mediated regulation of BDNF signaling in the cerebral cortex.</b>	Species Mouse
"11-5698-82 was used in Immunohistochemistry to provide molecular mechanistic insights into anatomical and physiological neurotoxic consequences related to a potent endocrine modifier."	
Authors: Hyun SA,Ko MY,Jang S,Lee BS,Rho J,Kim KK,Kim WY,Ka M	
	Dilution 1:1000

[View more IHC references on thermofisher.com](#)

Immunohistochemistry (Paraffin) (3)

Frontiers in oncology	Year 2020
<b>Radiation Induced Metabolic Alterations Associate With Tumor Aggressiveness and Poor Outcome in Glioblastoma.</b>	
"Published figure using Ki-67 monoclonal antibody (Product # 11-5698-82) in Immunocytochemistry"	
Authors: Gupta K,Vuckovic I,Zhang S,Xiong Y,Carlson BL,Jacobs J,Olson I,Petterson XM,Macura SI,Sarkaria J,Burns TC	

[View more IHC \(P\) references on thermofisher.com](#)

More applications with references on thermofisher.com

- IHC (PFA) (2)
- IHC (F) (1)
- ICC/IF (44)
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- Misc (1)

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