

# Ki-67 Monoclonal Antibody (SolA15), Alexa Fluor™ 700, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Dog, Cynomolgus monkey, Human, Mouse, Non-human primate, Rat
Published Species	Rat, Mouse, Human
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), Alexa Fluor™ 700, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	SolA15
Conjugate	Alexa Fluor™ 700
Excitation/Emission Max	696/719 nm
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_2637480

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	70 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	3 Publications
Immunohistochemistry (PFA fixed) (IHC (PFA))	-	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	-	1 Publication
Immunocytochemistry (ICC/IF)	-	46 Publications
Flow Cytometry (Flow)	0.25 µg/test	59 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.

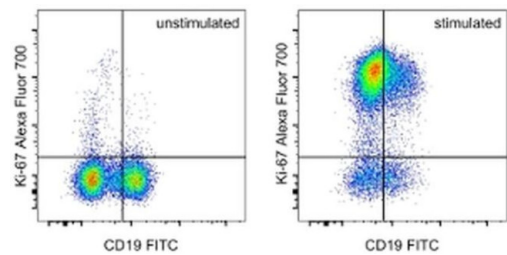
**Applications Tested:** This SolA15 antibody has been tested by intracellular staining and flow cytometric analysis of stimulated mouse splenocytes using the Foxp3/Transcription Factor Staining Buffer Set (cat. 00-5523) and protocol. Please refer to Best Protocols: Protocol B: One step protocol for (nuclear) intracellular proteins located under the Resources Tab online. This antibody 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.

Alexa Fluor® 700 emits at 723 nm and can be excited with the red laser (633 nm). Most instruments will require a 685 LP mirror and 710/20 filter. Please make sure that your instrument is capable of detecting this fluorochrome.

Excitation: 633-647 nm; Emission: 723 nm; Laser: Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

**Product Images For Ki-67 Monoclonal Antibody (SolA15), Alexa Fluor™ 700, eBioscience™**



**Ki-67 Antibody (56-5698-82) in Flow**  
Mouse splenocytes were unstimulated (left) or stimulated for 2 days with Anti-Mouse CD3e 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/Trasncription Factor Staining Buffer Set (Product # 00-5523-00) and intracellularly stained with 0.125 µg of Anti-Mouse /Rat Ki-67 Alexa Fluor® 700. Total viable cells, as determined by Fixable Viability Dye eFluor® 450 (Product # 65-0863-14), were used for analysis.

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Immunohistochemistry (70)

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 # 56-5698-82) in Immunohistochemistry"	
Authors: Sparks HD,Mandla S,Vizely K,Rosin N,Radicic M,Biernaskie J	
Journal of orthopaedic surgery and research	Year 2021
<b>GTSE1 is possibly involved in the DNA damage repair and cisplatin resistance in osteosarcoma.</b>	
"Published figure using Ki-67 monoclonal antibody (Product # 56-5698-82) in Immunohistochemistry"	
Authors: Xie C,Xiang W,Shen H,Shen J	

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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 # 56-5698-82) 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	
iScience	Year 2020
<b>Microbiota-Sourced Purines Support Wound Healing and Mucous Barrier Function.</b>	
"Published figure using Ki-67 monoclonal antibody (Product # 56-5698-82) in Immunohistochemistry (Paraffin)"	
Authors: Lee JS,Wang RX,Goldberg MS,Clifford GP,Kao DJ,Colgan SP	

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More applications with references on thermofisher.com

- IHC (PFA) (1)
- IHC (F) (1)
- ICC/IF (46)
- Flow (59)
- FN (1)

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