

# Ki-67 Monoclonal Antibody (SolA15), FITC, 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), FITC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	SolA15
Conjugate	FITC
Form	Liquid
Concentration	0.5 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_11151330

Applications	Tested Dilution	Publications
Western Blot (WB)	-	1 Publication
Immunohistochemistry (IHC)	Assay-Dependent	53 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	2 Publications
Immunohistochemistry (PFA fixed) (IHC (PFA))	-	1 Publication
Immunocytochemistry (ICC/IF)	10 µg/mL	32 Publications
Flow Cytometry (Flow)	0.25 µg/test	82 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

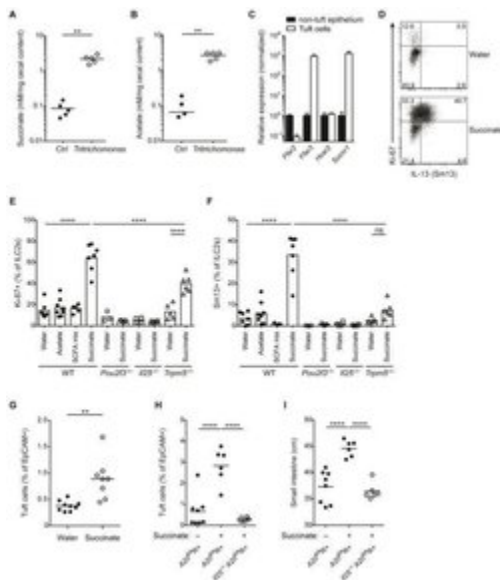
analysis, immunohistochemical staining, and immunocytochemistry.

**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.

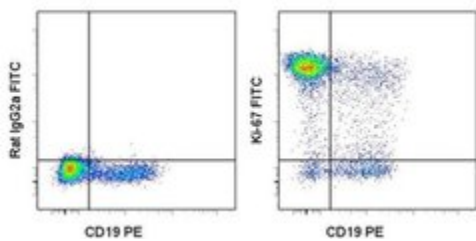
## Advanced Verification Data



### Ki-67 Antibody (11-5698-82)

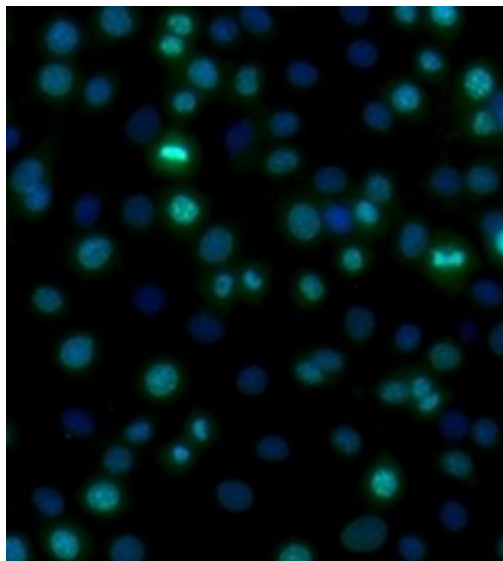
Figure 6 Open in a separate window Succinate is produced by *Tritrichomonas* and sufficient to activate the tuft cell - ILC2 circuit (A and B) GF mice monocolonized with *Tritrichomonas* and concentrations of acetate (A) and succinate (B) measured in the cecal content after 6 weeks. (C) Metabolite receptor mRNA expression quantified by qPCR in tuft cells versus other epithelial cells sorted from small intestine (SI) and normalized to levels in non-tuft epithelial cells. (D-F) *Tritrichomonas*-free IL-13-reporter (*Sm13*) mice were treated with succinate, acetate or a SCFA mix (acetate, butyrate, propionate) in drinking water for 4 days. Expression of Ki-67 and IL-13 by ILC2s in SI quantified by flow cytometry and representative dot plot from wild-type (WT) mice shown (D). Expression of Ki-67 (E) and IL-13 (F) by ILC2s from WT, *Pou2f3*<sup>-/-</sup>, *Il25*<sup>-/-</sup> and *Trpm5*<sup>-/-</sup> mice treated with indicated solutions. (G) *Tritrichomonas*-free WT mice treated with 100 mM succinate in drinking water for 10 days. Frequencies of tuft cells in SI by flow cytometry. (H and I) *Tritrichomonas*-free *A20*<sup>fl R+</sup> and *Il25*<sup>-/-</sup> *A20*<sup>fl R+</sup> mice treated with 100 mM succinate in drinking water for 25 days and frequencies of tuft cells (H) and SI length (I) analyzed. Data from one experiment (A, B) or from one experiment representative of at least two independent experiments (C, D, G-I) or pooled from multiple independent experiments (E, F). C, mean and s.e.m.; n = 3. \*\*p < 0.01, \*\*\*\*p < 0.0001; ns, not significant by M Cell treatment validation info.

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



### Ki-67 Antibody (11-5698-82) 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 (11-5698-82) 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).

[View more figures on thermofisher.com](http://thermofisher.com)

## Western Blot (1)

eLife

### The cell proliferation antigen Ki-67 organises heterochromatin.

"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

**Species**  
Human  
Mouse

**Dilution**  
Not Cited  
Not Cited

**Year**  
2016

## Immunohistochemistry (53)

JCI insight

### Delta-like 4 is required for pulmonary vascular arborization and alveolarization in the developing lung.

"Published figure using Ki-67 monoclonal antibody (Product # 11-5698-82) in Immunohistochemistry"

Authors: Xia S, Menden HL, Townley N, Mabry SM, Johnston J, Nyp MF, Heruth DP, Korfhagen T, Sampath V

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2021

Brain communications

### Adenosine kinase inhibition promotes proliferation of neural stem cells after traumatic brain injury.

"Published figure using Ki-67 monoclonal antibody (Product # 11-5698-82) in Immunohistochemistry (PFA fixed)"

Authors: Gebriel HM, Rose RM, Gesese R, Emond MP, Huo Y, Aronica E, Boison D

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2021

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

## Immunohistochemistry (Paraffin) (2)

Frontiers in oncology

### Radiation Induced Metabolic Alterations Associate With Tumor Aggressiveness and Poor Outcome in Glioblastoma.

"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

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2020

## More applications with references on thermofisher.com

IHC (PFA) (1)

ICC/IF (32)

Flow (82)

FN (1)

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