

# Ki-67 Monoclonal Antibody (SolA15), APC-eFluor 780, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Dog, Cynomolgus monkey, Human, Mouse, Non-human primate, Rat
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), APC-eFluor 780, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	SolA15
Conjugate	APC-eFluor® 780
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_2688065

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.06 µg/test	8 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 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.

APC-eFluor™ 780 emits at 780 nm and is excited with the Red laser (633 nm). Please make sure that your instrument is capable

of detecting this fluorochrome.

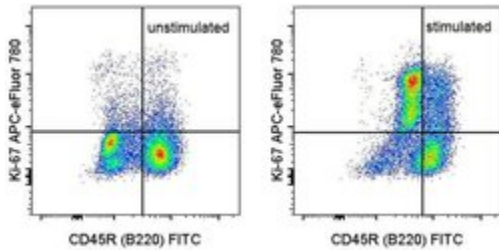
**Light sensitivity:** This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

**Fixation:** Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

**Excitation:** 633-647 nm; **Emission:** 780 nm; **Laser:** Red Laser.

**Filtration:** 0.2 µm post-manufacturing filtered.

## Product Images For Ki-67 Monoclonal Antibody (SolA15), APC-eFluor 780, eBioscience™



### Ki-67 Antibody (47-5698-82) in Flow

Intracellular staining of mouse 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 APC-eFluor® 780 using the Foxp3/Transcription Factor Buffer Set (Product # 00-5523-00) and protocol. Cells in the lymphocyte gate were used for analysis.

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## 8 References

### Flow Cytometry (8)

#### 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 # 47-5698-82) in Flow Cytometry"

Authors: Suzuki S,McCarrey JR,Hermann BP

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2021

#### Cell reports

#### Targeting Phosphatidylserine Enhances the Anti-tumor Response to Tumor-Directed Radiation Therapy in a Preclinical Model of Melanoma.

"Published figure using Ki-67 monoclonal antibody (Product # 47-5698-82) in Flow Cytometry"

Authors: Budhu S,Giese R,Gupta A,Fitzgerald K,Zappasodi R,Schad S,Hirschhorn D,Campesato LF,De Henau O, Gigoux M,Liu C,Mazo G,Deng L,Barker CA,Wolchok JD,Merghoub T

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2021

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

## More applications with references on thermofisher.com

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