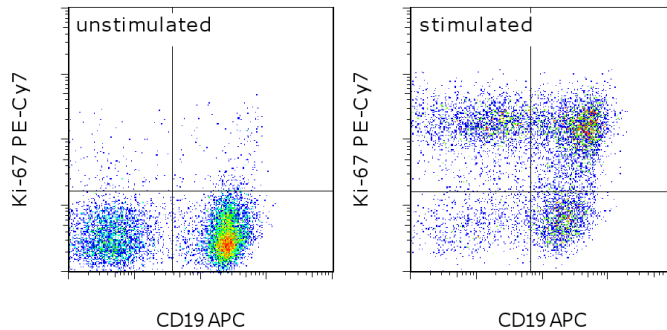


## Anti-Mouse/Rat Ki-67 PE-Cyanine7

**Catalog Number:** 25-5698

**Also known as:** Ki-67 protein, mki67

**RUO: For Research Use Only. Not for use in diagnostic procedures.**



C57Bl/6 splenocytes were unstimulated (left) or stimulated for 2 days with Anti-Mouse CD3 Functional Grade Purified (cat. 16-0031) (right). Cells were stained with Anti-Mouse CD19 APC (cat. 17-0193) followed by fixation and permeabilization using the Foxp3 Staining Buffer Set (cat. 00-5523) and subsequently stained with 0.06 µg of Anti-Mouse/Rat Ki-67 PE-Cyanine7. Cells in the lymphocyte gate were used for analysis.

### Product Information

**Contents:** Anti-Mouse/Rat Ki-67 PE-Cyanine7

**REF** **Catalog Number:** 25-5698

**Clone:** SolA15

**Concentration:** 0.2 mg/mL

**Host/Isotype:** Rat IgG2a, kappa

**Formulation:** aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

**Temperature Limitation:** Store at 2-8°C. Do not freeze. Light-sensitive material. This tandem dye is sensitive to photo-induced oxidation. Protect this vial from light during storage, handling & experimental procedures.

**Batch Code:** Refer to vial

**Use By:** Refer to vial

**Contains sodium azide**



LOT



### 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 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 using Foxp3/Transcription Factor Buffer Set (cat. 00-5523) and protocol. This can be used at less than or equal to 0.125 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.

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

**Fixation:** Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 uL cell sample + 100 uL IC Fixation

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**Buffer) or 1-step Fix/Lyse Solution (cat. 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.**

### References

Schaefer JS, Montufar-Solis D, Nakra N, Vigneswaran N, Klein JR. Small intestine inflammation in roquin-mutant and roquin-deficient mice. *PLoS One*. 2013;8(2):e56436. doi: 10.1371/journal.pone.0056436. (**Sola15**, FC, PubMed)

Starborg M, Gell K, Brundell E, Höög C. The murine Ki-67 cell proliferation antigen accumulates in the nucleolar and heterochromatic regions of interphase cells and at the periphery of the mitotic chromosomes in a process essential for cell cycle progression. *J Cell Sci*. 1996 Jan;109 (Pt 1):143-53.

### Related Products

00-5523 Foxp3 / Transcription Factor Staining Buffer Set  
16-0031 Anti-Mouse CD3e Functional Grade Purified (145-2C11)  
17-0193 Anti-Mouse CD19 APC (eBio1D3 (1D3))  
25-4321 Rat IgG2a K Isotype Control PE-Cyanine7 (eBR2a)

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