

## Anti-Mouse/Rat Ki-67 Alexa Fluor 647 (To Be Discontinued; Refer to Cat. No. 50-5698)

**Catalog Number:** 51-5698

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

### Product Information

**Contents:** Anti-Mouse/Rat Ki-67 Alexa Fluor 647 (To Be Discontinued; Refer to Cat. No. 50-5698)

 **Catalog Number:** 51-5698

**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.

**Batch Code:** Refer to vial

**Use By:** Refer to vial



 **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, immunohistochemical staining, and immunocytochemistry.

### Applications Tested

This SolA15 antibody has been tested by immunocytochemistry on fixed and permeabilized C2C12 cells at less than or equal to 5 µg/mL. It has also been tested by intracellular staining and flow cytometric analysis of stimulated mouse splenocytes using the Foxp3 Fixation/Permeabilization Buffer (cat 00-5521) and protocol. For flow application 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.

### References

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

00-4953 IHC /ICC Blocking Buffer - Low Protein

00-4954 20X TBS Wash Buffer for IHC/ICC

00-4958 Fluoromount-G™

00-5521 Foxp3 Fixation/Permeabilization Concentrate and Diluent

00-5523 Foxp3 / Transcription Factor Staining Buffer Set

12-0452 Anti-Human/Mouse CD45R (B220) PE (RA3-6B2)

16-0031 Anti-Mouse CD3e Functional Grade Purified (145-2C11)

51-4321 Rat IgG2a K Isotype Control Alexa Fluor® 647 (To Be Discontinued. Refer to Cat. No. 50-4321) (eBR2a)

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[info@ebioscience.com](mailto:info@ebioscience.com)

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