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## Anti-Mouse/Rat Ki-67 Purified

**Catalog Number:** 14-5698

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

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### Product Information



**Contents:** Anti-Mouse/Rat Ki-67 Purified

**Catalog Number:** 14-5698

**Clone:** SolA15

**Concentration:** 0.5 mg/mL

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



LOT



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

**Temperature Limitation:** Store at 2-8°C.

**Batch Code:** Refer to vial

**Use By:** Refer to vial

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### 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 immunohistochemical staining of formalin-fixed paraffin embedded (FFPE) tissue sections and frozen (paraformaldehyde fixed) sections and immunocytochemistry (ICC).

### Applications Tested

This SolA15 antibody has been tested by immunohistochemistry on formalin-fixed paraffin embedded mouse skin with high or low pH antigen retrieval and immunocytochemistry on fixed and permeabilized C2C12 cells at less than or equal to 5 ug/mL. It is recommended that this 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  
00-4955 IHC Antigen Retrieval Solution – Low pH (10X)  
00-4956 IHC Antigen Retrieval Solution – High pH (10X)  
00-4958 Fluoromount-G™  
14-4321 Rat IgG2a K Isotype Control Purified (eBR2a)

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