

Anti-Mouse/Rat Ki-67 FITC

Catalog Number: 11-5698

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

Product Information



Contents: Anti-Mouse/Rat Ki-67 FITC

Catalog Number: 11-5698

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. Do not freeze. Light-sensitive material.

Batch Code: Refer to vial

Use By: Refer to vial

Contains sodium azide

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 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 Fixation/Permeabilization Buffer (cat 00-5521) 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 10⁵ to 10⁸ 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

00-4222 Flow Cytometry Staining Buffer

00-5521 Foxp3 Fixation/Permeabilization Concentrate and Diluent

00-5523 Foxp3 / Transcription Factor Staining Buffer Set

11-4321 Rat IgG2a K Isotype Control FITC (eBR2a)

12-0193 Anti-Mouse CD19 PE (eBio1D3 (1D3))

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

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