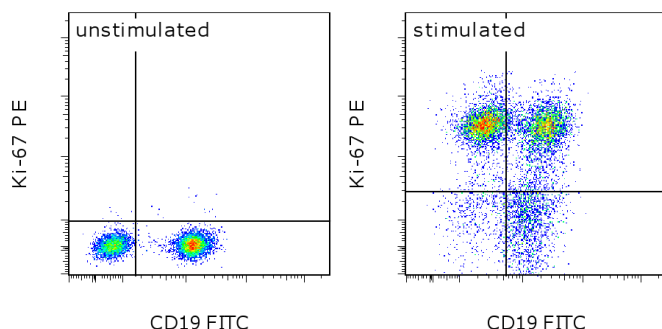


Anti-Mouse/Rat Ki-67 PE

Catalog Number: 12-5698

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 surface stained with Anti-Mouse CD19 FITC (cat. 11-0193) then fixed and permeabilized with the Foxp3 Staining Buffer Set (cat. 00-5523) and intracellularly stained with 0.03 μ g of Anti-Mouse/Rat Ki-67 PE. Total viable cells, as determined by Fixable Viability Dye eFluor® 450 (cat. 65-0863), were used for analysis.

Product Information

Contents: Anti-Mouse/Rat Ki-67 PE
Catalog Number: 12-5698
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
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 flow cytometric analysis, and 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 Staining Buffer Set (cat. 00-5523). This can be used at less than or equal to 0.06 μ g per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number should be determined empirically but can range from 10^5 to 10^8 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

00-5523 Foxp3 / Transcription Factor Staining Buffer Set

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11-0193 Anti-Mouse CD19 FITC (eBio1D3 (1D3))

12-4321 Rat IgG2a K Isotype Control PE (eBR2a)

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

65-0863 Fixable Viability Dye eFluor® 450

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