

Product Information

Contents: Affinity Purified anti-mouse BP-1

Catalog Number: 14-5995

Sizes: 50 ug, 100 ug, 500 ug

Formulation: Phosphate buffer pH 7.2,
150 mM NaCl, 0.09% NaN₃

Storage Conditions: Store at 4°C.

Avoid repeated freeze/thaw cycles.

Clone: FG35.4

Isotype: Rat IgG1, κ

Available Formats of This Product

Cat. No.	Format	Excite (nm)	Emit (nm)	Reported Applications
11-5995	FITC anti-mouse BP-1 (BP1)	488	518	FC
12-5995	PE anti-mouse BP-1 (BP1)	488	575	FC
13-5995	Biotin anti-mouse BP-1 (BP1)	N/A	N/A	FC
14-5995	Affinity Purified anti-mouse BP-1 (BP1)	N/A	N/A	FC

Description

The FG35.4 monoclonal antibody reacts with mouse BP-1, also known as Ly-51 and 6C3 antigen. BP-1 is a 140 kDa type II transmembrane protein that is present on the surface as a disulfide-linked homodimer. This molecule is an enzyme with aminopeptidase A (APA) activity and is expressed by bone marrow stromal cells, thymic cortical epithelial cells and at early stages of mouse B cell development, on pre-B cells. The low level of BP-1 expression on pre-B cells can be upregulated in the presence of IL-7.

Usage

For research use only, not for diagnostic or therapeutic use. FG35.4 has been reported for use in flow cytometric analysis and immunoprecipitation.

Applications Tested

The FG35.4 antibody has been tested by flow cytometric analysis of mouse bone marrow cell suspensions and can be used at less than or equal to 1 µg/million cells. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Related Products

- Cat. 14-4301 Affinity Purified Rat IgG1 Isotype Control
- Cat. 11-4317 Streptavidin-FITC (Fluorescein isothiocyanate)
- Cat. 12-4317 Streptavidin-PE (Phycoerythrin)
- Cat. 17-4317 Streptavidin Allophycocyanin (SA-APC)
- Cat. 11-4811 FITC Anti-Rat IgG
- Cat. 13-4813 Biotin Anti-Rat IgG (clone Polyclonal)

References

Cooper, M. D., D. Mulvaney, et al. (1986). "A novel cell surface molecule on early B-lineage cells." *Nature* 321(6070): 616-8.

