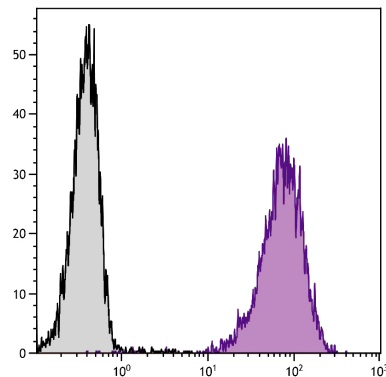




Rat Anti-Mouse BP-1

Cat. No.	Format	Size
1770-01	Purified (UNLB)	0.5 mg
1770-02	Fluorescein (FITC)	0.5 mg
1770-08	Biotin (BIOT)	0.5 mg
1770-09L	R-phycoerythrin (PE)	0.2 mg
1770-09	R-phycoerythrin (PE)	0.1 mg



Mouse pre-B cell line 18-81 was stained with Rat Anti-Mouse BP-1-PE (SB Cat. No. 1770-09).

Overview

Clone	FG35.4
Isotype	Rat IgG ₁ κ
Immunogen	Unknown
Specificity	Mouse BP-1; Mr 140 kDa
Alternate Name(s)	Ly-51, 6C3, aminopeptidase A, glutamyl aminopeptidase

Description

BP-1, also known as Ly-51 and 6C3 antigen, is a type II homodimeric transmembrane glycoprotein formed by two disulfide-linked chains of 140 kDa. Originally identified on the surface of pre-B cell lymphomas the cDNA encoding BP-1 has been cloned and found to represent aminopeptidase A. It is expressed at high levels on bone marrow stromal cell lines which support *in vitro* B lymphopoiesis and on a wide variety of mouse tissues known to possess aminopeptidase activity. Subsets of normal bone marrow pre-B and B cells express low levels of BP-1 which is rapidly upregulated on pre-B cells in the presence of IL-7. The BP-1 marker is commonly used to identify B cells in different stages of development.

Applications

FC – Quality tested ¹

Working Dilutions

Flow Cytometry	FITC and BIOT conjugates	≤ 1 μg/10 ⁶ cells
	PE conjugate	≤ 0.2 μg/10 ⁶ cells
For flow cytometry, the suggested use of these reagents is in a final volume of 100 μL		

Other Applications Since applications vary, you should determine the optimum working dilution for the product that is appropriate for your specific need.

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Handling and Storage

- The purified (UNLB) antibody is supplied as 0.5 mg of purified immunoglobulin in 1.0 mL of borate buffered saline, pH 8.2. *No preservatives or amine-containing buffer salts added.* Store at 2-8°C.
- The fluorescein (FITC) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN₃. Store at 2-8°C.
- The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN₃. Store at 2-8°C.
- The R-phycoerythrin (PE) conjugate is supplied as 0.1 mg in 1.0 mL or 0.2 mg in 2.0 mL of PBS/NaN₃ and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- Protect fluorochrome-conjugated forms from light. Reagents are stable for the period shown on the label if stored as directed.

Warning

Some reagents contain sodium azide. Please refer to product specific (M)SDS.

References

1. Welner R, Swett DJ, Pelsue SC. Age-related loss of bone marrow pre-B- and immature B-lymphocytes in the autoimmune-prone flaky skin mutant mice. *Autoimmunity*. 2005;38:399-408. (FC)