Datasheet for ABIN2689818

anti-ENPEP antibody (Biotin)

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Overview

Quantity:	0.5 mg
Target:	ENPEP
Reactivity:	Mouse
Host:	Rat
Clonality:	Monoclonal
Conjugate:	This ENPEP antibody is conjugated to Biotin
Application:	Flow Cytometry (FACS)

Product Details

Brand:	BD Pharmingen™
Immunogen:	C57L mouse Pre-B lymphhoma cell line L1-2
Clone:	6C3
Isotype:	IgG2a kappa
Characteristics:	The 6C3 antibody reacts with an epitope of the 6C3/BP-1 (Ly-51) glycoprotein cell-surface differentiation antigen, which was originally identified on pre-B cell lymphomas (spontaneous and chemical- or retrovirus- transformed, in vitro and in vivo). 6C3/BP-1 is a homodimer cell-surface glycoprotein with 140- kDa subunits which has been identified to possess aminopeptidase A (APA) activity. The same antigen is expressed at high levels on bone marrow stromal cell lines which support in vitro B lymphopoieses, on thymic dendritic cells and cortical epithelial cells, and on a wide variety of mouse and rat tissues known to possess APA activity. Subsets of normal bone marrow pre-B and B lymphocytes express low levels of Ly-51, which is

Product Details

	rapidly up-regulated on the pre-B cells in the presence of IL-7. A role for the 6C3/BP-1 Molecule in the IL-7-driven proliferation of B cell precursors has been postulated. However, B-cell abnormalities were not detected in Ly-51-deficient mice. Mature B lymphocytes, thymocytes, peripheral T lymphocytes, erythroid cells, and myeloid cells (with the exception of thymic dendritic cells) do not express Ly-51. The 6C3 antibody can be used to identify cortical epithelium in frozen sections of thymuses from normal, SCID, and TCR-transgenic mice. It is possible that the low level of 6C3/BP-1 antigen detected, by flow cytometry, on some thymocytes may be passively adsorbed from adjacent epithelial cells during preparation of the cell suspensions. BD Pharmingen™ Biotin Rat Anti-Mouse Ly-51 - Biotin - Clone 6C3 - Isotype Rat IgG2a, κ - Reactivity Ms - 0.5 mg
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Target Details

Target:	ENPEP
Alternative Name:	Ly-51 (ENPEP Products)
Target Type:	Chemical
Background:	Synonyms: 6C3/BP-1 Antigen
Pathways:	Peptide Hormone Metabolism, Regulation of Systemic Arterial Blood Pressure by Hormones

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Concentration:	0.5 mg/mL
Buffer:	Aqueous buffered solution containing ≤0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

Handling

	should be handled by trained staff only.
Handling Advice:	The antibody was conjugated with biotin under optimum conditions, and unreacted biotin was removed.
Storage:	4 °C
Storage Comment:	Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

Publications

Product cited in:

Lin, Taniuchi, Kitamura, Wang, Kearney, Watanabe, Cooper: "T and B cell development in BP-1/6C3/aminopeptidase A-deficient mice." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 160, Issue 10, pp. 4681-7, (1998) (PubMed).

Goverman, Brabb, Huseby, Farr: "TCR signaling regulates thymic organization: lessons from TCR-transgenic mice." in: **Immunology today**, Vol. 18, Issue 5, pp. 204-8, (1997) (PubMed).

Welch: "Regulation of B cell precursor proliferation by aminopeptidase A." in: **International immunology**, Vol. 7, Issue 5, pp. 737-46, (1995) (PubMed).

Wu, Vremec, Ardavin, Winkel, Süss, Georgiou, Maraskovsky, Cook, Shortman: "Mouse thymus dendritic cells: kinetics of development and changes in surface markers during maturation." in: **European journal of immunology**, Vol. 25, Issue 2, pp. 418-25, (1995) (PubMed).

Wang, Cooper: "Histidine residue in the zinc-binding motif of aminopeptidase A is critical for enzymatic activity." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 90, Issue 4, pp. 1222-6, (1993) (PubMed).

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