

Monoclonal Antibody to CD249 / Glutamyl aminopeptidase - PE

Alternate names:	Aminopeptidase A, Differentiation antigen gp160, EAP, ENPEP
Catalog No.:	AM08057RP-S
Quantity:	0.1 mg
Concentration:	0.1 mg/ml
Background:	BP1, also known as Ly51/6C3 antigen, is a type II homodimeric transmembrane glycoprotein formed by two disulfide-linked chains of 140 kDa. (Ref.1,2) Originally identified on the surface of pre-B cell lymphomas (Ref.1,3) the cDNA encoding BP1 has been cloned and found to represent Aminopeptidase A. (Ref.4,5) 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. (Ref.6-8) Subsets of normal bone marrow pre-B and B cells express low levels of BP1, which is rapidly upregulated on pre-B cells in the presence of IL-7. (Ref.9,10) The BP1 marker is commonly used to identify B cells in different stages of development. (Ref.11)
Uniprot ID:	P16406
NCBI:	NP_031960.1
GeneID:	13809
Host / Isotype:	Rat / IgG1
Clone:	FG35.4
Format:	State: Liquid purified Ig fraction. Buffer System: PBS containing 0.09% Sodium Azide as preservative and a stabilizing agent. Label: PE – R-Phycoerythrin
Applications:	Flow Cytometry: < / = 0.2 µg/10e6 cells. (Ref.12) Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody is specific to BP1 (Ly-51/6C3) Species: Mouse. Other species not tested.
Storage:	Store the antibody undiluted at 2-8°C. DO NOT FREEZE! This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

For research and in vitro use only. Not for diagnostic or therapeutic work.
Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Antibody Hotline - Technical Questions - Antibody Location Service
Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com

- General Readings:**
1. Cooper, M. D., D. Mulvaney, A. Coutinho, and P. A. Cazenave. 1986. *Nature* 321:616.
 2. Wu, Q., G. F. Tidmarsh, P. A. Welch, J. H. Pierce, I. L. Weissman, and M. D. Cooper. 1989. *J. Immunol.* 143:3303.
 3. Pillemer, E., C. Whitelock, and I. L. Weissman. 1984. *Proc. Natl. Acad. Sci. USA.* 81:4434.
 4. Wu, Q., J. M. Lahti, G. M. Air, P. D. Burrows, and M. D. Cooper. 1990. *Proc. Natl. Acad. Sci. USA.* 87:993.
 5. Wu, Q., L. Li, M. D. Cooper, M. Pierres, and J. P. Gorvel. 1991. *Proc. Natl. Acad. Sci. U. S. A.* 88:676.
 6. Whitlock, C. A., G. F. Tidmarsh, C. Muller-Sieburg, and I. L. Weissman. 1987. *Cell* 48:1009.
 7. Adkins, B., G. F. Tidmarsh, and I. L. Weissman. 1988. *Immunogenetics* 27:180.
 8. Li, L., Q. Wu, J. Wang, R. P. Bucy, and M. D. Cooper. 1993. *Tissue Antigens.* 42:488.
 9. Sherwood, P. J. and I. L. Weissman. 1990. *Int. Immunol.* 2:399.
 10. Welch, P. A., P. D. Burrows, A. Namen, S. Gillis, and M. D. Cooper. 1996. *Int. Immunol.* 2:697.
 11. Hardy, R. R., C. E. Carmack, S. A. Shinton, J. D. Kemp, and K. Hayakawa. 1991. *J. Exp. Med.* 173:1213.
 12. Shu, F. and J. F. Kearney. 1996. Personal communication.

Pictures:

Immunofluorescent Staining: Cells from BALB/c fetal liver were cultured with IL-7-producing stromal cells for 3 days at 37°C, stained with Rat anti-Mouse BP1/6C3-PE, and analyzed on a FACScan(TM) flow cytometer (BDIS, San Jose, CA). Amount Used: < / = 0.2 µg/10e6 cells.

