

Monoclonal Antibody to CD13 - FITC

Alternate names:	ANPEP, APN, Alanyl aminopeptidase, Aminopeptidase M, Aminopeptidase N, Microsomal aminopeptidase, Myeloid plasma membrane glycoprotein CD13, PEPN, gp150
Catalog No.:	SM1856FT
Quantity:	25 µg
Concentration:	0.1 mg/ml
Background:	In the mouse, CD13 is a non-covalently linked homodimer of approximately 150kD subunits expressed by a variety of cells including monocytes, macrophages, dendritic cell and veiled cells.
Uniprot ID:	P97449
NCBI:	NP_032512.2
GeneID:	16790
Host / Isotype:	Rat / IgG2a
Clone:	R3-63
Immunogen:	Mouse intestinal APN. Remarks: Spleen cells from immunised mice were fused with cells of the IR983F rat myeloma cell line.
Format:	State: Liquid purified IgG fraction Purification: Affinity Chromatography on Protein G Buffer System: PBS containing 0.09% Sodium Azide as preservative and 1% BSA as stabilizer Label: FITC – Fluorescein Isothiocyanate Isomer 1
Applications:	Flow Cytometry: Use 10 µl of neat-1/5 diluted antibody to label 10e6 cells in 100 µl. The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity Fc receptors. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody recognises Aminopeptidase N (APN), a cell surface protein homologous with human CD13. Clone R3-63 has been reported to block mouse APN enzyme activity. We recommend the use of SM1856A for Functional Studies.
Species Reactivity:	Tested: Mouse.
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. 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

Product Citation: Purified antibody is cited in:
1. Flavio Curnis, Anna Gasparri, Angelina Sacchi, Angela Cattaneo, Fulvio Magni, and Angelo Corti Targeted Delivery of IFN γ to Tumor Vessels Uncouples Antitumor from Counterregulatory Mechanisms *Cancer Res.*, Apr 2005; 65: 2906 - 2913.

General References: 1. Kamoun, W.S. et al. (2009) Edema control by cediranib, a vascular endothelial growth factor receptor-targeted kinase inhibitor, prolongs survival despite persistent brain tumor growth in mice. *J Clin Oncol.* 27: 2542-52.
2. Hansen, A. S. et al. (1993) A mouse aminopeptidase N is a marker for antigen-presenting cells and appears to be co-expressed with major histocompatibility complex class II molecules. *Eur. J. Immunol.* 23: 2358-2364.
3. Larsen, S .L. et al. (1996) T cell responses affected by aminopeptidase N (CD13)-mediated trimming of major histocompatibility complex class II-bound peptides. *J. Exp. Med.* 184: 183-189.

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