

## Monoclonal Antibody to CD13 - FITC

<b>Alternate names:</b>	ANPEP, APN, Alanyl aminopeptidase, Aminopeptidase M, Aminopeptidase N, Microsomal aminopeptidase, Myeloid plasma membrane glycoprotein CD13, PEPN, gp150
<b>Catalog No.:</b>	SM1856FS
<b>Quantity:</b>	50 µg
<b>Concentration:</b>	0.1 mg/ml
<b>Background:</b>	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.
<b>Uniprot ID:</b>	<a href="#">P97449</a>
<b>NCBI:</b>	<a href="#">NP_032512.2</a>
<b>GeneID:</b>	<a href="#">16790</a>
<b>Host / Isotype:</b>	Rat / IgG2a
<b>Clone:</b>	R3-63
<b>Immunogen:</b>	Mouse intestinal APN. Spleen cells from immunised mice were fused with cells of the IR983F rat myeloma cell line.
<b>Format:</b>	<b>State:</b> Liquid purified IgG <b>Purification:</b> Affinity chromatography on Protein G <b>Buffer System:</b> PBS, pH7.4 containing 0.09% Sodium Azide and 1% Bovine Serum Albumin <b>Label:</b> FITC – Fluorescein Isothiocyanate Isomer 1
<b>Applications:</b>	Flow Cytometry: 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.
<b>Specificity:</b>	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 this purpose. <b>Species:</b> Mouse. Other species not tested.
<b>Storage:</b>	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. This product is photosensitive and should be protected from light. Shelf life: one year from despatch.
<b>Product Citation:</b>	Purified antibody is cited in: 1. Flavio Curnis, Anna Gasparri, Angelina Sacchi, Angela Cattaneo, Fulvio Magni, and Angelo Corti Targeted Delivery of IFNγ to Tumor Vessels Uncouples Antitumor from

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Counterregulatory Mechanisms Cancer Res., Apr 2005; 65: 2906 - 2913.

- General References:**
1. 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.
  2. Larsen, S .L. et al. (1996) T cell responses affected by aminopeptidase N (CD13) - mediated trimming of major histocompatibility complex. J. Exp. Med. 184: 183 - 189.

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