

## Monoclonal Antibody to CD13 - PE

<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>	SM1856RT
<b>Quantity:</b>	25 Tests
<b>Concentration:</b>	IgG concentration 0.1 mg/ml
<b>Background:</b>	CD13 also known as Aminopeptidase N is a zinc dependent exopeptidase which cleaves amino acids from the N termini of target proteins including neuropeptides and cytokines. CD13 is expressed on all cells of the myeloid lineage as well as epithelial cells of the intestine, placenta, liver and kidney. CD13 is upregulated in a number of tumour types including lung, melanoma, thyroid and hepatocarcinoma and has been shown to correlate with poor prognosis. CD13 is a crucial molecule in tumour angiogenesis. CD13 is also the receptor for viruses from the coronavirus family.
<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
<b>Format:</b>	<b>State:</b> Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilised <b>Purification:</b> Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant <b>Buffer System:</b> Phosphate buffered saline pH7.4 0.09% Sodium Azide, 1% Bovine Serum Albumin, <b>Label:</b> PE <b>Reconstitution:</b> Reconstitute in 0.25 ml distilled water
<b>Applications:</b>	Flow Cytometry Neat Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	MCA2183PE recognises mouse aminopeptidase N (APN), a cell surface protein homologous with human CD13. 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.

Clone R3-63 has been reported to block mouse APN enzyme activity (1). Serotec recommend the use of MCA2183XZ for this purpose.

**For research and in vitro use only. Not for diagnostic or therapeutic work.**

Material Safety Datasheets are available at [www.acris-antibodies.com](http://www.acris-antibodies.com) or on request.

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

**Storage:**

Prior to reconstitution store at +4°C. Following reconstitution store at +4°C.

DO NOT FREEZE.

This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use. 12 months from date of reconstitution.

**Caution:**

(A full Health and Safety assessment is available upon request) This product contains Sodium Azide: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

**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 $\gamma$  to Tumor Vessels Uncouples Antitumor from Counterregulatory Mechanisms *Cancer Res.*, Apr 2005; 65: 2906 - 2913.

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