

Datasheet: VMA00367

Description:	MOUSE ANTI CD13
Specificity:	CD13
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	OTI2F10
Isotype:	IgG2a
Quantity:	100 µl

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Western Blotting	▪			1/1000

The PrecisionAb label is reserved for antibodies that meet the defined performance criteria within Bio-Rad's ongoing antibody validation programme. Click [here](#) to learn how we validate our PrecisionAb range. Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Further optimization may be required dependent on sample type.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Mouse monoclonal antibody purified by affinity chromatography from ascites
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃) 1% Bovine Serum Albumin 50% Glycerol
Immunogen	Recombinant protein fragment corresponding to aa 668-967 of human CD13 (NP_001141) produced in <i>E.coli</i>
External Database	UniProt:

Links

[P15144](#) [Related reagents](#)

Entrez Gene:

[290](#) ANPEP [Related reagents](#)

Synonyms

APN, CD13, PEPN

Specificity

Mouse anti Human CD13 antibody recognizes CD13, also known as ANPEP, AP-M, AP-N, alanyl aminopeptidase, aminopeptidase M, aminopeptidase N, hAPN, microsomal aminopeptidase and myeloid plasma membrane glycoprotein CD13.

Aminopeptidase N is located in the small-intestinal and renal microvillar membrane, and also in other plasma membranes. The large extracellular carboxyterminal domain contains a pentapeptide consensus sequence characteristic of members of the zinc-binding metalloproteinase superfamily. Sequence comparisons with known enzymes of this class showed that CD13 and aminopeptidase N are identical (provided by RefSeq, Jul 2008). The latter enzyme was thought to be involved in the metabolism of regulatory peptides by diverse cell types, including small intestinal and renal tubular epithelial cells, macrophages, granulocytes, and synaptic membranes from the CNS. Human aminopeptidase N is a receptor for one strain of human coronavirus that is an important cause of upper respiratory tract infections. Defects in ANPEP appear to be a cause of various types of leukemia or lymphoma.

Mouse anti Human CD13 antibody detects a band of 140-160 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.

Western Blotting

Anti CD13 detects a band of approximately 140-160 kDa in THP-1 cell lysates

Storage

Store undiluted at -20°C, avoiding repeated freeze thaw cycles.

Guarantee

12 months from date of despatch

Acknowledgements

PrecisionAb is a trademark of Bio-Rad Laboratories.

Health And Safety Information

Material Safety Datasheet documentation #10048 available at: Antibody (10048): <https://www.bio-rad-antibodies.com/uploads/MSDS/10048.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (H/L) (STAR207...) [HRP](#)

Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL \(MCA929\)](#)

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

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