

## Datasheet: VMA00367

|                      |                         |
|----------------------|-------------------------|
| <b>Description:</b>  | MOUSE ANTI CD13         |
| <b>Specificity:</b>  | CD13                    |
| <b>Format:</b>       | Purified                |
| <b>Product Type:</b> | PrecisionAb™ Monoclonal |
| <b>Clone:</b>        | OT12F10                 |
| <b>Isotype:</b>      | IgG2a                   |
| <b>Quantity:</b>     | 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](http://www.bio-rad-antibodies.com/protocols).

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

**PrecisionAb antibodies have been extensively [validated for the western blot application](#).** The antibody has been validated at the suggested dilution. 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 dependant on sample type.

|                                |   |
|--------------------------------|---|
| <b>Target Species</b>          | Human   |
| <b>Product Form</b>            | Purified IgG - liquid   |
| <b>Preparation</b>             | Mouse monoclonal antibody purified by affinity chromatography from ascites  |
| <b>Buffer Solution</b>         | Phosphate buffered saline   |
| <b>Preservative</b>            | 0.09% Sodium Azide (NaN <sub>3</sub> )  |
| <b>Stabilisers</b>             | 1% Bovine Serum Albumin<br>50% Glycerol   |
| <b>Immunogen</b>               | Recombinant protein fragment corresponding to aa 668-967 of human CD13 (NP_001141) produced in <i>E.coli</i>  |
| <b>External Database Links</b> | <b>UniProt:</b><br><a href="#">P15144</a> <a href="#">Related reagents</a><br><br><b>Entrez Gene:</b><br><a href="#">290</a> ANPEP <a href="#">Related reagents</a> |
| <b>Synonyms</b>                | 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.

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

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**Instructions For Use** Please refer to the [PrecisionAb western blotting protocol](#). For additional information on secondary antibody dilution and exposure time see product web page.

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

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**Shelf Life** As supplied, 12 months from date of despatch.

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**Acknowledgements** PrecisionAb™ is a trademark of Bio-Rad Laboratories.

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

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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

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

### Recommended Negative Controls

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

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