



# Anti-ANPEP monoclonal antibody, clone WM15 [APC] (CABT-45532MH)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

### Product Overview

Mouse anti Human CD13 antibody, clone WM15 recognizes human CD13 also known as aminopeptidase N. CD13 is a single pass type II glycosylated integral membrane protein with a predicted molecular mass of ~110kDa and an apparent molecular mass of ~150kDa expressed by granulocytes, monocytes, fibroblasts, endothelial cells and by myeloid leukaemia cells. CD13 acts as a major cell surface receptor for group 1 coronaviruses which bind to a critical sequence encompassing amino acid residues 288-295. CD13 functions as an aminopeptidase enzyme, a metalloprotease present as both a membrane bound form and also a soluble aminopeptidase N. Mouse anti Human CD13, clone WM15 inhibits infection of cells by human coronavirus but not hepatitis C virus and inhibits aminopeptidase N activity of the CD13 molecule. Flow Cytometry Use 10ul of the suggested working dilution to label 10<sup>6</sup> cells or 100ul whole blood

|                    |                                                                |
|--------------------|----------------------------------------------------------------|
| Specificity        | ANPEP                                                          |
| Immunogen          | Human AML cells.                                               |
| Isotype            | IgG1                                                           |
| Source/Host        | Mouse                                                          |
| Species Reactivity | Human, Rhesus monkey                                           |
| Clone              | WM15                                                           |
| Conjugate          | APC                                                            |
| Applications       | FC                                                             |
| Format             | Purified IgG conjugated to Allophycocyanin (APC) - lyophilised |

|                     |                                                                                                                                                                                                                                  |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Size</b>         | 100 tests                                                                                                                                                                                                                        |
| <b>Preservative</b> | 0.09% Sodium Azide                                                                                                                                                                                                               |
| <b>Storage</b>      | Prior to reconstitution store at +4°C. Following reconstitution store at +4°C. DO NOT FREEZE.<br>This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use. |

## GENE INFORMATION

|                            |                                                                                                                                                                                                                                                                 |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | <a href="#">ANPEP alanyl (membrane) aminopeptidase [ Homo sapiens (human) ]</a>                                                                                                                                                                                 |
| <b>Official Symbol</b>     | ANPEP                                                                                                                                                                                                                                                           |
| <b>Synonyms</b>            | EIF5AP1; eukaryotic translation initiation factor 5A pseudogene 1; APN; CD13; LAP1; P150; PEPN; GP150; ANPEP; alanyl (membrane) aminopeptidase; aminopeptidase N; AP-M; AP-N; alanyl aminopeptidase; aminopeptidase M; hAPN; microsomal aminopeptidase; myeloid |
| <b>Entrez Gene ID</b>      | <a href="#">290</a>                                                                                                                                                                                                                                             |
| <b>Protein Refseq</b>      | <a href="#">NP_001141.2</a>                                                                                                                                                                                                                                     |
| <b>UniProt ID</b>          | P15144                                                                                                                                                                                                                                                          |
| <b>Chromosome Location</b> | 15q25-q26                                                                                                                                                                                                                                                       |
| <b>Pathway</b>             | C-MYB transcription factor network; Cardiac Progenitor Differentiation; Glutathione metabolism; Hematopoietic cell lineage; Metabolic pathways;                                                                                                                 |
| <b>Function</b>            | aminopeptidase activity; metallopeptidase activity; receptor activity; virus receptor activity; zinc ion binding                                                                                                                                                |