

## Mouse CD13/Aminopeptidase N ELISA Kit | ANPEP elisa kit

Mouse CD13/Aminopeptidase N PicoKine ELISA Kit

CATALOG #  
**AAA45966**

REACTIVITY  
**Mouse**

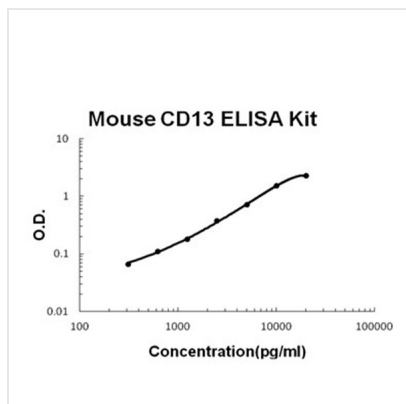
### PRODUCT SYNONYMS

CD13/Aminopeptidase N; Mouse CD13/Aminopeptidase N PicoKine ELISA Kit; Aminopeptidase N; alanyl (membrane) aminopeptidase; Alanyl (membrane) aminopeptidase; Alanyl aminopeptidase; Alanyl membrane aminopeptidase; Aminopeptidase M; AMPN\_HUMAN; ANPEP; AP M; AP N; AP-M; AP-N; APN; CD 13; CD13; CD13 antigen; gp150; hAPN; Lap 1; Lap1; Microsomal aminopeptidase; Myeloid plasma membrane glycoprotein CD13; p150; PEPN; ANPEP elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                       |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Mouse                                                                                                                                                 |
| Specificity             | Natural and recombinant mouse CD13                                                                                                                    |
| Sequence Length         | 966                                                                                                                                                   |
| Samples                 | Cell culture supernates, serum and plasma (heparin, EDTA)                                                                                             |
| Assay Type              | Sandwich                                                                                                                                              |
| Detection Range         | 312pg/ml-20,000pg/ml                                                                                                                                  |
| Sensitivity             | < 10pg/ml                                                                                                                                             |
| Intra-assay Precision   | Intra-Assay Precision (Precision within an assay) Three samples of known concentration were tested on one plate to assess intra-assay precision.      |
| Inter-assay Precision   | Inter-Assay Precision (Precision between assays) Three samples of known concentration were tested in separate assays to assess inter-assay precision. |
| Preparation and Storage | Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice.)                            |

### IMAGES



Standard Curve (Sample)

Mouse CD13/Aminopeptidase N PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

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| Related Product Information for ANPEP elisa kit | <p><b>Principle of the assay:</b> mouse CD13 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from rat specific for CD13 has been precoated onto 96-well plates. Standards(NSO, K69-S966) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for CD13 is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the mouse CD13 amount of sample captured in plate.</p> <p><b>Background:</b> Alanine aminopeptidase, also known as ANPEP or CD13. is an enzyme that is used as a biomarker to detect damage to the kidneys, and that may be used to help identify certain kidney disorders. It is mapped to 15q26.1. Aminopeptidase N is located in the small-intestinal and renal microvillar membrane, and also in other plasma membranes. In the small intestine, Aminopeptidase N plays a role in the final digestion of peptides generated from hydrolysis of proteins by gastric and pancreatic proteases, and it is also 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. Petrovic et al showed that CD13 was required for endothelial cell invasion in response to bradykinin. Inhibition of CD13 abrogated internalization of bradykinin receptor B2 and reduced endothelial cell motility.</p> |
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NCBI AND UNIPROT INFORMATION

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|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 31077182                                                                                                                           |
| NCBI GeneID                      | 16790                                                                                                                              |
| UniProt Accession #              | P97449; Q91YH8; Q99K63                                                                                                             |
| Molecular Weight                 | 109,651 Da                                                                                                                         |
| NCBI Official Full Name          | Aminopeptidase N                                                                                                                   |
| NCBI Official Synonym Full Names | alanyl (membrane) aminopeptidase                                                                                                   |
| NCBI Official Symbol             | Anpep                                                                                                                              |
| NCBI Official Synonym Symbols    | Apn; AP-M; AP-N; Cd13; P150                                                                                                        |
| NCBI Protein Information         | aminopeptidase N; aminopeptidase M; alanyl aminopeptidase; aminopeptidase N/CD13; membrane protein p161; microsomal aminopeptidase |
| UniProt Protein Name             | Aminopeptidase N                                                                                                                   |
| UniProt Gene Name                | Anpep                                                                                                                              |
| UniProt Synonym Gene Names       | Lap-1; Lap1; AP-N; mAPN; AP-M                                                                                                      |
| UniProt Entry Name               | AMPN_MOUSE                                                                                                                         |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/anpep-mouse-elisa-kits/cd13-aminopeptidase-n/45966>