

Human Alanyl (membrane) aminopeptidase (ANPEP) ELISA Kit



Catalog No: #EK11335

Orders: order@signalwayantibody.com

Package Size: #EK11335-1 48T #EK11335-2 96T

Support: tech@signalwayantibody.com

Description

Product Name	Human Alanyl (membrane) aminopeptidase (ANPEP) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	APN; CD13; GP150; LAP1; P150; PEPN; aminopeptidase M aminopeptidase N membrane alanine aminopeptidase microsomal aminopeptidase myeloid plasma membrane glycoprotein CD13
Accession No.	P15144
Uniprot	P15144
GeneID	290;
Storage	The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

Application Details

Detect Range:1.56-100 ng/mL

Sensitivity:0.57 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:Sandwich Test principle:This assay employs a two-site sandwich ELISA to quantitate ANPEP in samples. An antibody specific for ANPEP has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any ANPEP present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for ANPEP is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of ANPEP bound in the initial step. The color development is stopped and the intensity of the color is measured.

Product Overview:Alanine aminopeptidase (EC 3.4.11.2) is an enzyme that is used as a biomarker to detect damage to the kidneys, and that may be used to help diagnose certain kidney disorders. It is found at high levels in the urine when there are kidney problems.Also called AAP. 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. Its function in proximal tubular epithelial cells and other cell types is less clear. The large extracellular carboxyterminal domain contains a pentapeptide consensus sequence characteristic of members of the zinc-binding metalloproteinase superfamily.

Note: This product is for in vitro research use only