

Human Dipeptidase 2 (DPEP2) ELISA Kit

Catalog No: #EK10540



Package Size: #EK10540-1 48T #EK10540-2 96T

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

Description

Product Name	Human Dipeptidase 2 (DPEP2) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	MBD2; OTTHUMP00000174846
Accession No.	Q9H4A9
Uniprot	Q9H4A9
GeneID	64174;
Storage	<p>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.</p> <p>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).</p>

Application Details

Detect Range:0.156-10 ng/mL

Sensitivity:0.069 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 DPEP2 in samples. An antibody specific for DPEP2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any DPEP2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for DPEP2 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 DPEP2 bound in the initial step. The color development is stopped and the intensity of the color is measured.

Product Overview: DPEP2 belongs to the membrane-bound dipeptidase (EC 3.4.13.19) family. These enzymes hydrolyze a variety of dipeptides, including leukotriene D4, the beta-lactam ring of some antibiotics, and cystinyl-bis-glycine (cys-bis-gly) formed during glutathione degradation. The deduced 578-amino acid mouse protein contains several residues conserved among MBDs, including 6 cysteines, 3 histidines, and a glutamic acid that is important for catalytic activity. Mouse and human MBD2 share 80% amino acid identity. Spleen, liver, and skeletal muscle expressed low Mbd2 levels, and no expression was detected in kidney and brain. Phospholipase treatment released Mbd2 from transfected COS-7 cell membranes, indicating that Mbd2 is anchored to the membrane through glycosylphosphatidylinositol modification.

Note: This product is for in vitro research use only