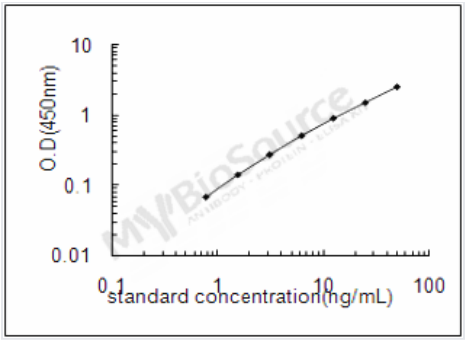
Meprin A Subunit Beta (MEP1B) ELISA Kit for Rat

PRODUCT OVERVIEW

Product Name	Meprin A subunit beta (Mep1b), ELISA Kit
Full Product Name	Rat Meprin A subunit beta ELISA Kit
Product Gene Name	Mep1b elisa kit
Species Reactivity	Rat
Assay Type	Sandwich
Detection Range	0.78-50 ng/ml
Sensitivity	0.405 ng/mL
Specificity	This assay recognizes recombinant and natural rat Meprin A subunit beta. No significant cross-reactivity or interference was observed.
Preparation and Storage	For long term storage, please store the entire kit at -20 degree C.
Molecular Weight	79,236 Da
3D Structure	ModBase 3D Structure for P28826
Intra-Assay CV	<=5.1%
Inter-Assay CV	<=10.2%
Recovery	87%
Related Product Information for Mep1b elisa kit	Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to Meprin A subunit beta. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated polyclonal antibody preparation specific for Meprin A subunit beta and Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. Then a TMB substrate solution is added to each well. Only those wells that contain Meprin A subunit beta, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of a sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450 nm +/- 2 nm. The concentration of Meprin A subunit beta in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Other Notes	Small volumes of Mep1b elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for Mep1b purchase	MBS288416 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Meprin A subunit beta (Mep1b) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing Mep1b. The ELISA analytical biochemical technique of the MBS288416 kit is based on Mep1b antibody-Mep1b antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect Mep1b antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, Mep1b. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of Mep1b elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Mep1b. It may not necessarily be applicable to this product.

NCBI GI #	6981198
NCBI GeneID	25727
NCBI Accession #	NP_037315.1
UniProt Primary Accession #	P28826
UniProt Secondary Accession #	Q642D0
UniProt Related Accession #	P28826
GenBank Nucleotide #	NM_013183.2
NCBI Official Full Name	meprin A subunit beta
NCBI Official Synonym Full Names	meprin 1 beta
NCBI Official Symbol	Mep1b
UniProt Protein Name	Meprin A subunit beta
UniProt Synonym Protein Names	Endopeptidase-2; Meprin B
Protein Family	Meprin
UniProt Gene Name	Mep1b
UniProt Entry Name	MEP1B_RAT
NCBI Protein Information	meprin A subunit beta
NCBI Summary for Mep1b	beta subunit of meprin metalloproteinases, which form homotetramers and heterodimers with alpha subunit Mep1a [RGD, Feb 2006]
UniProt Comments for Mep1b	Membrane metallopeptidase that sheds many membrane-bound proteins. Exhibits a strong preference for acidic amino acids at the P1' position. Known substrates include: FGF19, VGFA, IL1B, IL18, procollagen I and III, E-cadherin, KLK7, gastrin, ADAM10, tenascin-C. The presence of several pro-inflammatory cytokine among substrates implicate MEP1B in inflammation. It is also involved in tissue remodeling due to its capability to degrade extracellular matrix components.
Research Articles on Mep1b	**1.** identifies proIL-18 as a biologically important substrate for meprin beta and implicates meprins in the modulation of inflammation
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