

## ARG83440 Mouse MEP1B / Meprin Beta ELISA Kit

Package: 96 wells

Store at: 4°C

### Summary

Product Description	ARG83440 Mouse MEP1B / Meprin Beta ELISA Kit is an Enzyme Immunoassay kit for the quantification of Mouse MEP1B / Meprin Beta in Serum, plasma and cell culture supernatants., Cell Lysates, Tissue Homogenates
Tested Reactivity	Ms
Tested Application	ELISA
Target Name	MEP1B / Meprin Beta
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	10 pg/ml
Sample Type	Serum, plasma and cell culture supernatants., Cell Lysates, Tissue Homogenates
Standard Range	156 - 10000 pg/ml
Sample Volume	100 µl
Alternate Names	MEP1B; Meprin A Subunit Beta; N-Benzoyl-L-Tyrosyl-P-Amino-Benzoic Acid Hydrolase Subunit Beta; PABA Peptide Hydrolase; Endopeptidase-2; Meprin A, Beta; PPH Beta; Meprin B; N-Benzoyl-L-Tyrosyl-P-Amino-Benzoic Acid Hydrolase Beta Subunit; EC 3.4.24.63

### Application Instructions

Assay Time	3.5 hours
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### Properties

Form	96 well
Storage instruction	Store the kit at 4°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

### Bioinformation

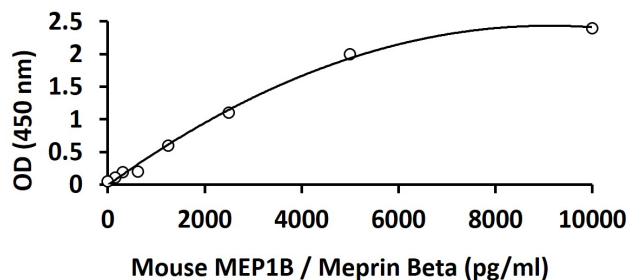
Gene Symbol	MEP1B
Gene Full Name	Meprin A Subunit Beta
Background	Meprins are multidomain zinc metalloproteases that are highly expressed in mammalian kidney and intestinal brush border membranes, and in leukocytes and certain cancer cells. They are involved in the hydrolysis of a variety of peptide and protein substrates, and have been implicated in cancer and intestinal inflammation. Mature meprins are oligomers of evolutionarily related, but separately encoded alpha and/or beta subunits. Homooligomers of alpha subunit are secreted, whereas, oligomers containing the beta subunit are plasma membrane-bound. This gene encodes the beta subunit. Targeted disruption of this gene in mice affects embryonic viability, renal gene expression

profiles, and distribution of the membrane-associated alpha subunit in kidney and intestine.

Function	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.
PTM	Disulfide bond, Glycoprotein, Zymogen
Cellular Localization	Cell membrane, Membrane, Secreted

## Images

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ARG83440 Mouse MEP1B / Meprin Beta ELISA Kit standard curve image

ARG83440 Mouse MEP1B / Meprin Beta ELISA Kit results of a typical standard run with optical density reading at 450 nm.