10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Meprin beta Rabbit pAb

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Catalog # AP57252

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q16820
Predicted	Rat, Dog, Human, Mouse, Rabbit, Chicken, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	79571
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Meprin beta
Epitope Specificity	151-250/701
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cell Membrane; single-pass type I membrane protein.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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. [provided by RefSeq, Oct 2011]

Additional Information

Gene ID	4225
Other Names	Meprin A subunit beta, 3.4.24.63, Endopeptidase-2, Meprin B, N-benzoyl-L-tyrosyl-P-amino-benzoic acid hydrolase subunit beta, PABA peptide hydrolase, PPH beta, MEP1B
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	MEP1B
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. Also cleaves the amyloid precursor protein/APP, thereby releasing neurotoxic amyloid beta peptides (PubMed:27180357).
Cellular Location	Cell membrane; Single-pass type I membrane protein. Secreted Note=Homodimers are essentially membrane bound but may also be shed from the surface by ADAM-10 and ADAM-17.
Tissue Location	The major site of expression is the brush border membrane of small intestinal and kidney epithelial cells

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