

Rabbit anti-Mouse Meprin alpha/MEP1A Monoclonal Antibody | anti-MEP1A antibody

Recombinant Anti-Meprin alpha/MEP1A Antibody, Rabbit Monoclonal

CATALOG # AAA257072	HOST Rabbit	REACTIVITY Mouse	APPLICATIONS Immunohistochemistry, ELISA
-------------------------------	-----------------------	----------------------------	--

PRODUCT SYNONYMS

Meprin alpha/MEP1A; Monoclonal Antibody; Recombinant Anti-Meprin alpha/MEP1A Antibody; Rabbit Monoclonal; MEP1A Antibody; Rabbit MAb; meprin A; alpha (PABA peptide hydrolase); Anti-AI098089 Antibody; Anti-AW107200 Antibody; Anti-Mep-1 Antibody; Anti-Mep-1a Antibody; Anti-Mep1 Antibody; anti-MEP1A antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Number	001
Specificity	Mouse Meprin alpha/MEP1A
Purity/Purification	Protein A
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-MEP1A antibody	IHC (Immunohistochemistry), ELISA
Antibody Type	Recombinant Antibody
Immunogen	Recombinant Mouse MEP1A Protein
Conjugation	Unconjugated
Preparation	This antibody was obtained from a rabbit immunized with purified, recombinant Mouse MEP1A (rM MEP1A).
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



IHC (Immunohistochemistry)

Immunochemical staining of mouse MEP1A in mouse intestine with rabbit monoclonal antibody (1:200, formalin-fixed paraffin embedded sections). The left panel: tissue incubated with primary antibody; The right panel: tissue incubated with the mixture of primary antibody and antigen (recombinant protein).



IHC (Immunohistochemistry)

Immunochemical staining of mouse MEP1A in mouse kidney with rabbit monoclonal antibody (1:200, formalin-fixed paraffin embedded sections).

ADDITIONAL INFORMATION

Related Product Information for anti-MEP1A antibody	Meprin A subunit alpha, also known as MEP1A, and Endopeptidase-2, is a single-pass type I membrane protein that belongs to the peptidase M12A family. MEP1A contains one EGF-like domain, one MAM domain, and one MATH domain. Meprins are unique plasma membrane and secreted metalloproteinases that are highly regulated at the transcriptional and post-translational levels. Meprin alpha and beta subunits are abundantly expressed in kidney and intestinal epithelial cells, are secreted into the urinary tract and intestinal lumen and are found in leukocytes and cancer cells under certain conditions. Meprins are capable of proteolytically degrading extracellular matrix proteins, processing bioactive proteins, and play a role in inflammatory processes. Meprin A and B are highly regulated, secreted and cell-surface homo-and hetero-oligomeric enzymes. Meprins are abundantly expressed in the kidney and intestine. The multidomain alpha and beta subunits have high sequence identity. They have very different substrate specificities, oligomerization potentials, and are differentially regulated. Meprin A appears to be an important therapeutic target and urinary excretion appears to be a potential biomarker of acute kidney injury (AKI).
References	Bertenshaw, GP. et al., 2002, Biol Chem. 383 (7-8):1175-83. Bond, JS. et al., 2005, FEBS Lett. 579 (15): 3317-22. Herzog, C. et al., 2007, Kidney Int. 71 (10): 1009-18. Yura, RE. et al., 2009, Am J Physiol Renal Physiol. 296 (1): F135-44.

NCBI AND UNIPROT INFORMATION

NCBI GI #	31982199
NCBI GeneID	17287
NCBI Accession #	NP_032611.2
NCBI GenBank Nucleotide #	NM_008585.2
UniProt Accession #	P28825; Q91WH9; B0V2P9
Molecular Weight	84,231 Da
NCBI Official Full Name	meprin A subunit alpha
NCBI Official Synonym Full Names	meprin 1 alpha
NCBI Official Symbol	Mep1a
NCBI Official Synonym Symbols	Mep1; Mep-1; Mep-1a; AI098089; AW107200
NCBI Protein Information	meprin A subunit alpha; meprin alpha; endopeptidase-2; meprin A alpha-subunit
UniProt Protein Name	Meprin A subunit alpha
UniProt Gene Name	Mep1a
UniProt Entry Name	MEP1A_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.