

## Rabbit Anti-Mep1a Polyclonal Antibody

CPB-018RM Rabbit(Mep1a)

Lot. No. (See product label)

### PRODUCT INFORMATION

<b>Product Overview</b>	Rabbit Anti-Mep1a Polyclonal Antibody
<b>Antigen Description</b>	Meprin A subunit alpha, also known as Mep1a, and Endopeptidase-2, is a single-pass type I membrane protein which 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, proteolytically 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 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).
<b>specificity</b>	MouseMep1a / Endopeptidase-2.
<b>Target</b>	Mep1a
<b>Immunogen</b>	Recombinant mouseMep1a protein.
<b>Host</b>	Rabbit
<b>Isotype</b>	IgG
<b>Species</b>	Mouse
<b>conjugation</b>	N/A
<b>Applications</b>	N/A
<b>Preparation</b>	Produced in rabbits immunized with purified, human cell-derived, recombinant mouseMep1a (rMMep1a; Met 1-Arg 615).Mep1a specific IgG was purified by mouse Mep1a affinity chromatography.

### PACKAGING

<b>Format</b>	0.2µm filtered solution in PBS with 5% trehalose.
<b>Storage</b>	This antibody can be stored at 2°C-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -70°C. Preservative -Free. Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles.

### ANTIGEN GENE INFORMATION

<b>Gene Name</b>	<a href="#">Mep1a meprin 1 alpha [ Mus musculus ]</a>
<b>Official Symbol</b>	Mep1a
<b>Synonyms</b>	MEP1A; meprin 1 alpha; meprin A subunit alpha; meprin alpha; endopeptidase-2; meprin A alpha-subunit; Mep1; Mep-1; Mep-1a; A1098089; AW107200;
<b>GeneID</b>	<a href="#">17287</a>

<b>mRNA Refseq</b>	<a href="#">NM_008585</a>
<b>Protein Refseq</b>	<a href="#">NP_032611</a>
<b>Pathway</b>	Protein digestion and absorption, organism-specific biosystem; Protein digestion and absorption, conserved biosystem;
<b>Function</b>	hydrolase activity; metal ion binding; metalloendopeptidase activity; metallopeptidase activity; peptidase activity; zinc ion binding;