CPB2 Antibody

PRODUCT OVERVIEW

Product Name	CPB2, Antibody
Full Product Name	CPB2 Antibody
Product Gene Name	anti-CPB2 antibody
Molecular Weight	40,922 Da
OMIM	603101
3D Structure	ModBase 3D Structure for Q96IY4
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for anti-CPB2 antibody	MBS8502750 is an antibody targeting CPB2. Also known as CPB2 Antibody.
Other Notes	Small volumes of anti-CPB2 antibody 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CPB2. It may not necessarily be applicable to this product.

NCBI GI #	513126877
NCBI GeneID	1361
NCBI Accession #	NP_001265470.1
UniProt Primary Accession #	Q96IY4
UniProt Secondary Accession #	Q15114; Q5T9K1; Q5T9K2; Q9P2Y6; A8K464
UniProt Related Accession #	Q96IY4
GenBank Nucleotide #	NM_001278541.1
NCBI Official Full Name	carboxypeptidase B2 isoform 2 preproprotein
NCBI Official Synonym Full Names	carboxypeptidase B2
NCBI Official Symbol	CPB2
NCBI Official Synonym Symbols	CPU; PCPB; TAFI
UniProt Protein Name	Carboxypeptidase B2
UniProt Synonym Protein Names	Carboxypeptidase U; CPU; Plasma carboxypeptidase B; pCPB; Thrombin-activable fibrinolysis inhibitor; TAFI
Protein Family	Carboxypeptidase
UniProt Gene Name	CPB2
UniProt Synonym Gene Names	CPU; pCPB; TAFI
NCBI Protein Information	carboxypeptidase B2

NCBI Summary for CPB2	Carboxypeptidases are enzymes that hydrolyze C-terminal peptide bonds. The carboxypeptidase family includes metallo-, serine, and cysteine carboxypeptidases. According to their substrate specificity, these enzymes are referred to as carboxypeptidase A (cleaving aliphatic residues) or carboxypeptidase B (cleaving basic amino residues). The protein encoded by this gene is activated by trypsin and acts on carboxypeptidase B substrates. After thrombin activation, the mature protein downregulates fibrinolysis. Polymorphisms have been described for this gene and its promoter region. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jun 2013]
UniProt Comments for CPB2	Cleaves C-terminal arginine or lysine residues from biologically active peptides such as kinins or anaphylatoxins in the circulation thereby regulating their activities. Down-regulates fibrinolysis by removing C-terminal lysine residues from fibrin that has already been partially degraded by plasmin.
Research Articles on CPB2	**1.** Lys 42, Lys 43, Lys 44 and Arg 12 are critical for the interaction of TAFI with the thrombin-thrombomodulin complex, which modulates its antifibrinolytic potential.
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