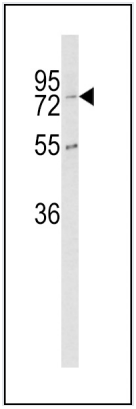
CPZ Antibody – Rabbit Polyclonal

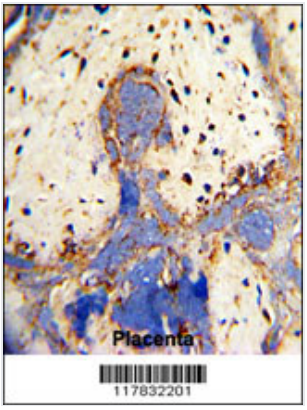
PRODUCT OVERVIEW

Product Name	CPZ, Polyclonal Antibody
Full Product Name	CPZ Antibody (N-term)
Product Gene Name	anti-CPZ antibody
Product Synonym Names	Carboxypeptidase Z; CPZ; 3417-; CPZ
Clonality	Polyclonal
Isotype	Rabbit Ig
Host	Rabbit
Species Reactivity	Human
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Concentration	Vial Concentration: 2 (lot specific)
Specificity	This CPZ antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 143-172 amino acids from the N-terminal region of human CPZ.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	CPZ peptide (MBS9226145) is used for blocking the activity of CPZ antibody (MBS9205746)
Molecular Weight	73655
Immunogen Sequence Positions	143-172
OMIM	603105
3D Structure	ModBase 3D Structure for Q66K79
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Product Categories/Family for anti-CPZ antibody	Cell Biology; Signal transduction
Applications Tested/Suitable for anti-CPZ antibody	Western Blot (WB), ELISA (EIA), Immunohistochemistry (IHC)
Application Notes for anti-CPZ antibody	WB~~1:1000
Related Product Information for anti-CPZ antibody	CPZ is a member of the metallocarboxypeptidase family. This enzyme displays carboxypeptidase activity towards substrates with basic C-terminal residues. It is most active at neutral pH and is inhibited by active site-directed inhibitors of metallocarboxypeptidases.
Product References and Citations for anti-CPZ antibody	Fan,X., J. Histochem. Cytochem. 50 (11), 1509-1516 (2002) Reznik,S.E., Cell. Mol. Life Sci. 58 (12-13), 1790-1804 (2001)
Other Notes	Small volumes of anti-CPZ 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.

Searchable Terms for CPZ purchase	MBS9205746 is an antibody targeting CPZ. Also known as CPZ Antibody (N-term). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-CPZ antibody
Western blot analysis of CPZ Antibody (N-term) in K562 cell line lysates (35ug/lane). CPZ (arrow) was detected using the purified Pab.



Immunohistochemistry (IHC) of anti-CPZ antibody
Formalin-fixed and paraffin-embedded human placenta with CPZ Antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

ADDITIONAL DETAILS

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

NCBI GI #	62388877
NCBI GeneID	8532
NCBI Accession #	NP_001014447.1
NCBI Related Accession #	NP_001014448.1; NP_003643.2
UniProt Primary Accession #	Q66K79
UniProt Secondary Accession #	O00520; Q96MX2
UniProt Related Accession #	Q66K79
GenBank Nucleotide #	NM_001014447.2
NCBI Official Full Name	carboxypeptidase Z isoform 1
NCBI Official Synonym Full Names	carboxypeptidase Z
NCBI Official Symbol	CPZ
UniProt Protein Name	Carboxypeptidase Z
Protein Family	Carboxypeptidase
UniProt Gene Name	CPZ
UniProt Synonym Gene Names	CPZ
UniProt Entry Name	CBPZ_HUMAN
NCBI Protein Information	carboxypeptidase Z
NCBI Summary for CPZ	This gene encodes a member of the metallocarboxypeptidase family. This enzyme displays carboxypeptidase activity towards substrates with basic C-terminal residues. It is most active at neutral pH and is inhibited by active site-directed inhibitors of metallocarboxypeptidases. Alternative splicing in the coding region results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]

UniProt Comments for CPZ	CPZ: Cleaves substrates with C-terminal arginine residues. Probably modulates the Wnt signaling pathway, by cleaving some undefined protein. May play a role in cleavage during prohormone processing. Belongs to the peptidase M14 family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Extracellular matrix; Protease; Secreted; EC 3.4.17.-; Secreted, signal peptide Chromosomal Location of Human Ortholog: 4p16.1 Cellular Component: proteinaceous extracellular matrix Molecular Function: zinc ion binding; metallocarboxypeptidase activity Biological Process: Wnt receptor signaling pathway; proteolysis
Research Articles on CPZ	**1.** Clinical trial of gene-disease association and gene-environment interaction. (HuGE Navigator)
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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