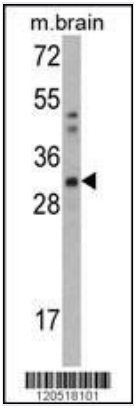
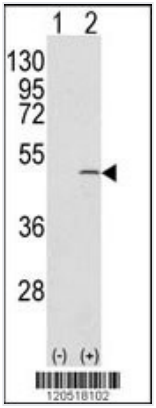
CAPZB Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CAPZB, Polyclonal Antibody
Full Product Name	CAPZB, CT (F-actin-capping Protein Subunit beta, CapZ beta) (HRP)
Product Gene Name	anti-CAPZB antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Horseradish Peroxidase (HRP).
Purity/Purification	Purified by Ammonium Sulfate Precipitation.
Specificity	Recognizes human CAPZB.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Note: Sodium azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates.
Molecular Weight	– Da
3D Structure	ModBase 3D Structure for P47756
Immunogen	Synthetic peptide selected from the C-terminal region of human CAPZB (KLH).
Conjugate	HRP
Note	Preservative Free
Product Categories/Family for anti-CAPZB antibody	Antibodies; Growth Factors; Cytokines
Applications Tested/Suitable for anti-CAPZB antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-CAPZB antibody	WB: 1:50-1:100 ELISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-CAPZB antibody	MBS6466980 is an antibody targeting CAPZB. Also known as CAPZB, CT (F-actin-capping Protein Subunit beta, CapZ beta) (HRP). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-CAPZB antibody	1. Wells, C.D., Cell 125(3), 535-548 (2006). 2. Bruneel, A., Proteomics 5(15), 3876-3884 (2005).
Other Notes	Small volumes of anti-CAPZB 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.



Western Blot (WB) of anti-CAPZB antibody
Western blot analysis of CAPZB Antibody (C-term) in mouse brain tissue lysates (35ug/lane). CAPZB (arrow) was detected using the purified Pab.



Western Blot (WB) of anti-CAPZB antibody
Western blot analysis of CAPZB (arrow) using rabbit polyclonal CAPZB Antibody (C-term). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the CAPZB gene (Lane 2).

ADDITIONAL DETAILS

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

NCBI GI #	4826659
NCBI GeneID	832
NCBI Accession #	NP_004921
UniProt Primary Accession #	P47756
UniProt Secondary Accession #	Q32Q68; Q5U0L4; Q8TB49; Q9NUC4
UniProt Related Accession #	P47756
GenBank Nucleotide #	NM_004930.4
NCBI Official Full Name	F-actin-capping protein subunit beta isoform 1
NCBI Official Synonym Full Names	capping protein (actin filament) muscle Z-line, beta
NCBI Official Symbol	CAPZB
NCBI Official Synonym Symbols	CAPB; CAPZ; CAPPB
UniProt Protein Name	F-actin-capping protein subunit beta
UniProt Synonym Protein Names	CapZ beta
Protein Family	F-actin-capping protein
UniProt Gene Name	CAPZB
NCBI Protein Information	F-actin-capping protein subunit beta
NCBI Summary for CAPZB	This gene encodes the beta subunit of the barbed-end actin binding protein, which belongs to the F-actin capping protein family. The capping protein is a heterodimeric actin capping protein that blocks actin filament assembly and disassembly at the fast growing (barbed) filament ends and functions in regulating actin filament dynamics as well as in stabilizing actin filament lengths in muscle and nonmuscle cells. A pseudogene of this gene is located on the long arm of chromosome 2. Multiple alternatively spliced transcript variants encoding different isoforms have been found.[provided by RefSeq, Aug 2013]
UniProt Comments for CAPZB	F-actin-capping proteins bind in a Ca2+-independent manner to the fast growing ends of actin filaments (barbed end) thereby blocking the exchange of subunits at these ends. Unlike other capping proteins (such as gelsolin and severin), these proteins do not sever actin filaments. Plays a role in the regulation of cell morphology and cytoskeletal organization.
Research Articles on CAPZB	**1.** RAGE has a role in endothelial cell membrane repair and regulates F-actin remodeling and membrane resealing

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