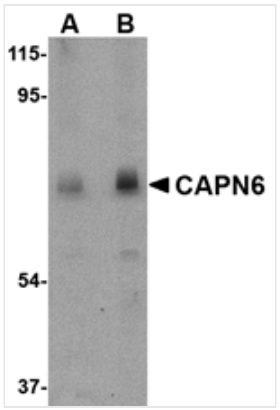
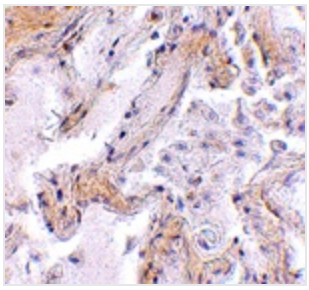
CAPN6 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CAPN6, Polyclonal Antibody
Full Product Name	CAPN6 Antibody
Product Gene Name	anti-CAPN6 antibody
Product Synonym Names	CAPN6, Calpain 6, CANPX, CalpM
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Supplied in PBS containing 0.02% sodium azide.
Purity/Purification	Affinity chromatography purified via peptide column
Preparation and Storage	Can be stored at -20 degree C, stable for one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Molecular Weight	74,576 Da
OMIM	300146
Immunogen Type	Peptide
Immunogen Description	Raised against a 18 amino acid peptide from near the carboxy terminus of human CAPN6.
Target Name	CAPN6
Product Categories/Family for anti-CAPN6 antibody	Total protein Ab
Applications Tested/Suitable for anti-CAPN6 antibody	ELISA (EIA), Western Blot (WB), Immunohistochemistry (IHC)
Related Product Information for anti-CAPN6 antibody	Calpains make up a ubiquitously expressed, well-conserved family of calcium-dependent cysteine proteases. The calpain proteins are heterodimers consisting of an invariant small subunit and variable large subunits. This large subunit possesses a cysteine protease domain, and both subunits possess calcium-binding domains. Calpains have been implicated in neurodegenerative processes as their activation can be triggered by calcium influx and oxidative stress. Calpain 6 (CAPN6) is most similar to Calpain 5; the C-terminal region of CAPN6 lacks homology to the calmodulin-like domain of other vertebrate calpains. CAPN6 is thought to be involved in the regulation of microtubule dynamics and cytoskeletal organization. CAPN6 has also been recently identified as an HIV dependency factor (HDF), suggesting that CAPN6 may be an important drug target in HIV treatment.
Other Notes	Small volumes of anti-CAPN6 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 CAPN6 purchase	MBS9402634 is an antibody targeting CAPN6. Also known as CAPN6 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-CAPN6 antibody
Western blot analysis of CAPN6 in rat lung tissue lysate with CAPN6 antibody at (A) 0.5 and (B) 1 ug/mL.



Immunohistochemistry (IHC) of anti-CAPN6 antibody
Immunohistochemistry of CAPN6 in human lung tissue with CAPN6 antibody at 2.5 ug/mL.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CAPN6. It may not necessarily be applicable to this product.

NCBI GI #	13186316
NCBI GeneID	827
NCBI Accession #	NP_055104
UniProt Secondary Accession #	Q9UEQ1; Q9UJA8; D3DUY7
UniProt Related Accession #	Q9Y6Q1
GenBank Nucleotide #	NM_014289.3
NCBI Official Full Name	calpain-6
NCBI Official Synonym Full Names	calpain 6
NCBI Official Symbol	CAPN6
NCBI Official Synonym Symbols	CANPX; CAPNX; CalpM; DJ914P14.1
UniProt Protein Name	Calpain-6
UniProt Synonym Protein Names	Calpain-like protease X-linked; Calpamodulin; CalpM
Protein Family	Calpain
UniProt Gene Name	CAPN6
UniProt Synonym Gene Names	CALPM; CANPX; CalpM
UniProt Entry Name	CAN6_HUMAN
NCBI Protein Information	calpain-6
NCBI Summary for CAPN6	Calpains are ubiquitous, well-conserved family of calcium-dependent, cysteine proteases. The calpain proteins are heterodimers consisting of an invariant small subunit and variable large subunits. The large subunit possesses a cysteine protease domain, and both subunits possess calcium-binding domains. Calpains have been implicated in neurodegenerative processes, as their activation can be triggered by calcium influx and oxidative stress. The protein encoded by this gene is highly expressed in the placenta. Its C-terminal region lacks any homology to the calmodulin-like domain of other calpains. The protein lacks critical active site residues and thus is suggested to be proteolytically inactive. The protein may play a role in tumor formation by inhibiting apoptosis and promoting angiogenesis. [provided by RefSeq, Nov 2009]

UniProt Comments for CAPN6	CAPN6: Microtubule-stabilizing protein that may be involved in the regulation of microtubule dynamics and cytoskeletal organization. May act as a regulator of RAC1 activity through interaction with ARHGEF2 to control lamellipodial formation and cell mobility. Does not seem to have protease activity as it has lost the active site residues. Belongs to the peptidase C2 family. Chromosomal Location of Human Ortholog: Xq23 Cellular Component: perinuclear region of cytoplasm; spindle microtubule Molecular Function: microtubule binding; calcium-dependent cysteine-type endopeptidase activity Biological Process: proteolysis; microtubule bundle formation; regulation of cytoskeleton organization and biogenesis
Research Articles on CAPN6	**1.** syndecan-2 exerts its pro-apoptotic function through modulation of the endothelin-1/NFkappaB signaling and through downregulation of calpain-6.
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