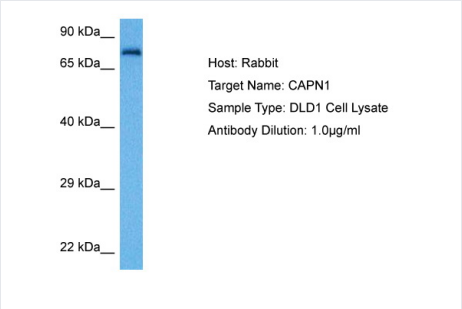
CAPN1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CAPN1, Polyclonal Antibody
Full Product Name	CAPN1 Antibody - middle region
Product Gene Name	anti-CAPN1 antibody
Product Synonym Gene Name	CANP; muCL; CANP1; CANPL1; muCANP
Immunogen Sequence	Synthetic peptide located within the following region: PATFWVNPQF KIRLDETDDP DDYGDRESGC SFVLALMQKH RRRERRFGRD
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Purity/Purification	Affinity purified
Preparation and Storage	For short term use, store at 2-8 degree C up to 1 week. For long term storage, store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	CAPN1 peptide (MBS3246325) is used for blocking the activity of CAPN1 antibody (MBS3221592)
Molecular Weight	78 kDa
OMIM	114220
3D Structure	ModBase 3D Structure for P07384
Immunogen	The immunogen is a synthetic peptide directed towards the middle region of human CAPN1
Product Categories/Family for anti-CAPN1 antibody	Polyclonal; DNA/RNA/Protein Interactions; Tissue Specific & Cell Marker
Applications Tested/Suitable for anti-CAPN1 antibody	Western Blot (WB)
Related Product Information for anti-CAPN1 antibody	The calpains, calcium-activated neutral proteases, are nonlysosomal, intracellular cysteine proteases. The mammalian calpains include ubiquitous, stomach-specific, and muscle-specific proteins. The ubiquitous enzymes consist of heterodimers with distinct large, catalytic subunits associated with a common small, regulatory subunit. This gene encodes the large subunit of the ubiquitous enzyme, calpain 1. Several transcript variants encoding two different isoforms have been found for this gene.
Other Notes	Small volumes of anti-CAPN1 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 CAPN1 purchase	MBS3221592 is an antibody targeting CAPN1. Also known as CAPN1 Antibody - middle region. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-CAPN1 antibody
Host: RabbitTarget Name: CAPN1Sample Tissue: Human DLD1 Whole Cell lysatesAntibody Dilution: 1ug/ml

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CAPN1. It may not necessarily be applicable to this product.

NCBI GI #	311893363
NCBI GeneID	823
NCBI Accession #	NP_001185797.1
UniProt Primary Accession #	P07384
UniProt Related Accession #	P07384
GenBank Nucleotide #	NM_001198868.1
NCBI Official Full Name	calpain-1 catalytic subunit
NCBI Official Synonym Full Names	calpain 1
NCBI Official Symbol	CAPN1
NCBI Official Synonym Symbols	CANP; muCL; CANP1; SPG76; CANPL1; muCANP
UniProt Protein Name	Calpain-1 catalytic subunit
UniProt Synonym Protein Names	Calcium-activated neutral proteinase 1; CANP 1; Calpain mu-type; Calpain-1 large subunit; Cell proliferation-inducing gene 30 protein; Micromolar-calpain
Protein Family	Calpain
UniProt Gene Name	CAPN1
UniProt Synonym Gene Names	CANPL1; CANP 1; muCANP
UniProt Entry Name	CAN1_HUMAN
NCBI Protein Information	calpain-1 catalytic subunit

UniProt Comments for CAPN1	CAPN1: Calcium-regulated non-lysosomal thiol-protease which catalyze limited proteolysis of substrates involved in cytoskeletal remodeling and signal transduction. Forms a heterodimer with a small (regulatory) subunit (CAPNS1). Ubiquitous. Activated by micromolar concentrations of calcium and inhibited by calpastatin. Belongs to the peptidase C2 family. Protein type: EC 3.4.22.52; Motility/polarity/chemotaxis; Protease Chromosomal Location of Human Ortholog: 11q13 Cellular Component: focal adhesion; membrane; cytoplasm; plasma membrane; cytosol Molecular Function: protein binding; calcium-dependent cysteine-type endopeptidase activity; calcium ion binding Biological Process: extracellular matrix disassembly; extracellular matrix organization and biogenesis; receptor catabolic process; positive regulation of cell proliferation; proteolysis
Research Articles on CAPN1	**1.** Unexpected role of the L-domain of calpastatin during the autoproteolytic activation of human erythrocyte calpain.
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