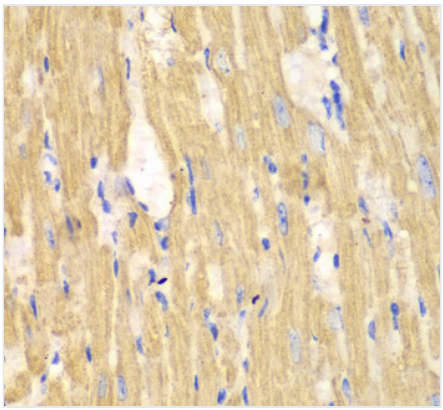
CAPN1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CAPN1, Polyclonal Antibody
Full Product Name	CAPN1 Polyclonal Antibody
Product Gene Name	anti-CAPN1 antibody
Product Synonym Names	CAPN1; CANP; CANP1; CANPL1; SPG76; muCANP; muCL; calpain 1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	PBS with 0.02% sodium azide, 50% glycerol, pH7.3
Purity/Purification	Affinity purification
Concentration	1mg/mL (lot specific)
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	81,890 Da
OMIM	114220
3D Structure	ModBase 3D Structure for P07384
Immunogen	Recombinant fusion protein of human CAPN1 (NP_0051772)
Conjugation	Unconjugated
Product Categories/Family for anti-CAPN1 antibody	Cancer; Cell Biology; Signal Transduction; Polyclonal Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CAPN1 antibody	Immunohistochemistry (IHC)
Application Notes for anti-CAPN1 antibody	IHC: 1:50-1:200
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	MBS2564666 is an antibody targeting CAPN1. Also known as CAPN1 Polyclonal Antibody. Reactive in Human, Mouse. Host: Rabbit.



Immunohistochemistry (IHC) of anti-CAPN1 antibody
Immunohistochemistry of paraffin-embedded Mouse heart using CAPN1 Polyclonal Antibody at dilution of 1:100 (40x lens).

ADDITIONAL DETAILS

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

NCBI GI #	119594774
NCBI GeneID	823
NCBI Accession #	EAW74368.1
UniProt Primary Accession #	P07384
UniProt Secondary Accession #	Q2TTR0; Q6DHV4
UniProt Related Accession #	P07384
NCBI Official Full Name	calpain 1, (mu/I) large subunit, isoform CRA_c
NCBI Official Synonym Full Names	calpain 1, (mu/I) large subunit
NCBI Official Symbol	CAPN1
NCBI Official Synonym Symbols	CANP; muCL; CANP1; 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; CANP 1; calpain mu-type; micromolar-calpain; calpain-1 large subunit; calpain, large polypeptide L1; calcium-activated neutral proteinase 1; cell proliferation-inducing protein 30; cell proliferation-inducing gene 30 protein

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.** The PC1 function on JAK2 and ERK signaling pathways might be regulated by calpains in response to the changes in intracellular calcium concentration.
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