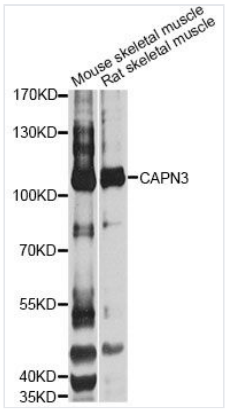
CAPN3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CAPN3, Polyclonal Antibody
Full Product Name	CAPN3
Product Gene Name	anti-CAPN3 antibody
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Molecular Weight	821
OMIM	gene 253600
3D Structure	ModBase 3D Structure for P20807
Species	Human
Immunogen	Recombinant Protein
Product Categories/Family for anti-CAPN3 antibody	Polyclonal
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CAPN3 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Related Product Information for anti-CAPN3 antibody	MBS127766 is an antibody targeting CAPN3. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-CAPN3 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-CAPN3 antibody
Western blot analysis of extracts of various cell lines, using CAPN3 Antibody at 1:1000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (MBS128200) at 1:10000 dilution.Lysates/proteins: 25ug per lane.Blocking buffer: 3% nonfat dry milk in TBST.Detection: ECL Basic Kit.Exposure time: 15s.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CAPN3. It may not necessarily be applicable to this product.

NCBI GI #	1345664
NCBI GeneID	825
NCBI Accession #	P20807.2
UniProt Primary Accession #	P20807
UniProt Secondary Accession #	Q7L4R0; Q9BQC8; Q9BTU4; Q9Y5S6; Q9Y5S7; A6H8K6
UniProt Related Accession #	P20807
NCBI Official Full Name	Calpain-3
NCBI Official Synonym Full Names	calpain 3, (p94)
NCBI Official Symbol	CAPN3
NCBI Official Synonym Symbols	p94; CANP3; LGMD2; nCL-1; CANPL3; LGMD2A
UniProt Protein Name	Calpain-3
UniProt Synonym Protein Names	Calcium-activated neutral proteinase 3; CANP 3; Calpain L3; Calpain p94; Muscle-specific calcium-activated neutral protease 3; New calpain 1; nCL-1
Protein Family	Calpain
UniProt Gene Name	CAPN3
UniProt Synonym Gene Names	CANP3; CANPL3; NCL1; CANP 3; nCL-1
UniProt Entry Name	CAN3_HUMAN
NCBI Protein Information	calpain-3; new calpain 1; calpain, large polypeptide L3; calpain p94, large [catalytic] subunit; muscle-specific calcium-activated neutral protease 3 large subunit
NCBI Summary for CAPN3	Calpain, a heterodimer consisting of a large and a small subunit, is a major intracellular protease, although its function has not been well established. This gene encodes a muscle-specific member of the calpain large subunit family that specifically binds to titin. Mutations in this gene are associated with limb-girdle muscular dystrophies type 2A. Alternate promoters and alternative splicing result in multiple transcript variants encoding different isoforms and some variants are ubiquitously expressed. [provided by RefSeq, Jul 2008]

UniProt Comments for CAPN3	CAPN3: Calcium-regulated non-lysosomal thiol-protease. Defects in CAPN3 are the cause of limb-girdle muscular dystrophy type 2A (LGMD2A). LGMD2A is an autosomal recessive degenerative myopathy characterized by progressive symmetrical atrophy and weakness of the proximal limb muscles and elevated serum creatine kinase. The symptoms usually begin during the first two decades of life, and the disease gradually worsens, often resulting in loss of walking ability 10 or 20 years after onset. Belongs to the peptidase C2 family. 5 isoforms of the human protein are produced by alternative splicing. Protein type: Motility/polarity/chemotaxis; Cell development/differentiation; Protease; Calcium-binding; EC 3.4.22.54 Chromosomal Location of Human Ortholog: 15q15.1 Cellular Component: protein complex; myofibril; T-tubule; cytoplasm; plasma membrane; intracellular; cytosol; Z disc; nucleus Molecular Function: peptidase activity; sodium ion binding; protein binding; signal transducer activity; structural constituent of muscle; titin binding; calcium-dependent cysteine-type endopeptidase activity; calcium ion binding; protein complex scaffold; catalytic activity; ligase regulator activity; cysteine-type peptidase activity Biological Process: response to muscle activity; muscle development; apoptosis; positive regulation of proteolysis; positive regulation of transcription, DNA-dependent; positive regulation of satellite cell activation involved in skeletal muscle regeneration; sarcomere organization; signal transduction; proteolysis; negative regulation of protein sumoylation; activation of NF-kappaB transcription factor; muscle maintenance; autolysis; myofibril assembly; regulation of catalytic activity; regulation of myoblast differentiation; protein complex assembly; positive regulation of release of sequestered calcium ion into cytosol; negative regulation of transcription, DNA-dependent; response to calcium ion; regulation of I-kappaB kinase/NF-kappaB cascade; negative regulation of apoptosis Disease: Muscular Dystrophy, Limb-girdle, Type 2a
Research Articles on CAPN3	**1.** In LGMD2A muscles the activation of the atrophy programme appeared to depend mainly upon induction of the ubiquitin-proteasome system
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