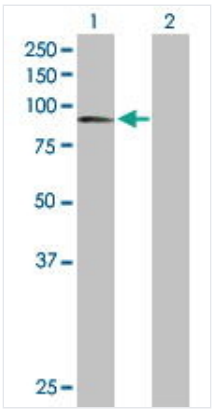
CAPN1 Antibody – Rabbit Polyclonal

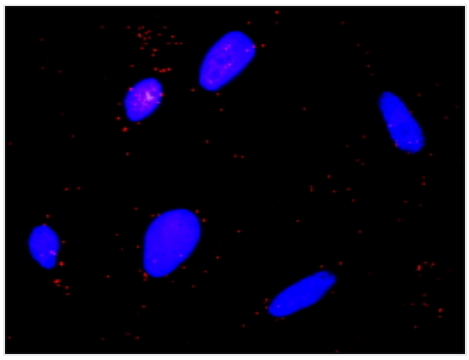
PRODUCT OVERVIEW

Product Name	CAPN1, Polyclonal Antibody
Full Product Name	CAPN1 (Calpain-1 Catalytic Subunit, Calcium-activated Neutral Proteinase 1, CANP 1, Calpain mu-type, Calpain-1 Large Subunit, Cell Proliferation-inc
Product Gene Name	anti-CAPN1 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 Fluorescein Isothiocyanate (FITC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human CAPN1.
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 stor
Molecular Weight	81,890 Da
Immunogen	Full length human CAPN1, aa1-714 (NP_005177.2).
Immunogen Sequence	MSEEIITPVYCTGVSAQVQKQRARELGLGRHENAIKYLGQDYEQLRVRCLQSGTLFRDEAFPPVPQSLGYKDLGPNSSKTYGIKWKRPTELLSNPQFIVDC
Conjugate	FITC
Note	Preservative Free
Product Categories/Family for anti-CAPN1 antibody	Antibodies; Calpain
Applications Tested/Suitable for anti-CAPN1 antibody	Western Blot (WB)
Application Notes for anti-CAPN1 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-CAPN1 antibody	Calpain 1 (mu-calpain), a calcium-dependent cysteine C2 endopeptidase, is involved in myofibrillar protein degradation. In skeletal muscles, activation
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 neces

Searchable Terms for CAPN1 purchase	MBS6372171 is an antibody targeting CAPN1. Also known as CAPN1 (Calpain-1 Catalytic Subunit, Calcium-activated Neutral Proteinase 1, CANP 1, C



Western Blot (WB) of anti-CAPN1 antibody
Western Blot analysis of CAPN1 expression in transfected 293T cell line by CAPN1 polyclonal antibody. Lane 1: CAPN1 transfected lysate (81.9kD). Lane 2: Non-transfected lysate.



Testing Data of anti-CAPN1 antibody
Proximity Ligation Analysis (PLA) of protein-protein interactions between CAPN1 and F2R. HeLa cells were stained with CAPN1 rabbit purified polyclonal 1:1200 and F2R mouse monoclonal antibody 1:50. Signals were detected by 30 Detection Kit 613 (red), and nuclei were counterstained with DAPI (blue). Each red dot represents the detection of protein-protein interaction complex

ADDITIONAL DETAILS

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

NCBI GI #	12408656
NCBI GeneID	823
NCBI Accession #	NP_005177.2
UniProt Secondary Accession #	Q2TTR0; Q6DHV4
UniProt Related Accession #	P07384
GenBank Nucleotide #	NM_005186
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
Protein Family	Calpain
NCBI Protein Information	calpain-1 catalytic subunit
NCBI Summary for CAPN1	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. [provided by RefSeq, Nov 2010]
Research Articles on CAPN1	**1.** Increased mu-Calpain Activity in Blasts of Common B-Precursor Childhood Acute Lymphoblastic Leukemia Correlates with Their Lower Susceptibility to Apoptosis.
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