

Calpain 10 Polyclonal Antibody

Catalog No :	YT0614
Reactivity :	Human;Rat;Mouse;
Applications :	WB;ELISA
Target :	Calpain 10
Gene Name :	CAPN10
Protein Name :	Calpain-10
Human Gene Id :	11132
Human Swiss Prot No :	Q9HC96
Mouse Swiss Prot No :	Q9ESK3
Immunogen :	Synthesized peptide derived from the N-terminal region of human Calpain 10.
Specificity :	Calpain 10 Polyclonal Antibody detects endogenous levels of Calpain 10 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. ELISA: 1:40000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	75kD

Background :

Calpains represent a 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 catalytic subunit has four domains: domain I, the N-terminal regulatory domain that is processed upon calpain activation; domain II, the protease domain; domain III, a linker domain of unknown function; and domain IV, the calmodulin-like calcium-binding domain. This gene encodes a large subunit. It is an atypical calpain in that it lacks the calmodulin-like calcium-binding domain and instead has a divergent C-terminal domain. It is similar in organization to calpains 5 and 6. This gene is associated with type 2 or non-insulin-dependent diabetes mellitus (NIDDM), and is located within the NIDDM1 region. Multiple alternative transcript variants have been described for this gene. [provided by RefSeq,

Function :

catalytic activity:Broad endopeptidase specificity.,disease:Genetic variations in CAPN10 are associated with susceptibility to non-insulin-dependent diabetes mellitus type 1 (NIDDM1) [MIM:601283]. Diabetes mellitus is a heterogeneous group of metabolic diseases characterized by high blood glucose levels which, if untreated, lead to blindness, kidney and heart disease, stroke, loss of limbs and reduced life expectancy. Diabetes mellitus can be divided into two main types, type 1 or insulin-dependent diabetes mellitus, and type 2 or non insulin-dependent diabetes mellitus (NIDDM) [MIM:125853]. NIDDM normally starts in adulthood and is characterized by defects in insulin action and insulin secretion.,function:Calcium-regulated non-lysosomal thiol-protease which catalyze limited proteolysis of substrates involved in cytoskeletal remodeling and signal transduction.,similarity:Belongs to the p

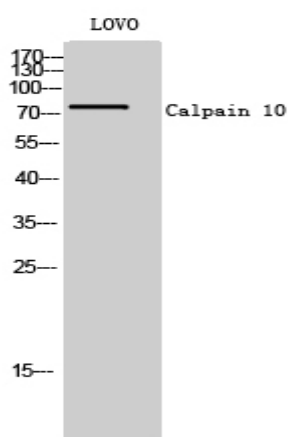
Subcellular Location :

intracellular,cell,mitochondrion,cytosol,plasma membrane,

Expression :

Detected in primary skeletal muscle cells (at protein level). Ubiquitous.

Products Images



Western Blot analysis of LOVO cells using Calpain 10 Polyclonal Antibody