



Calpain 10 Polyclonal Antibody

Catalog No	YP-Ab-02520
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB;ELISA
Gene Name	CAPN10
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
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. ELISA: 1/40000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	calpain 10;CANP 10;CAPN10;KIAA1845;Calpain-10;Calcium-activated neutral proteinase 10
Observed Band	75kD
Calculated Molecular Weight	75kD
Cell Pathway	intracellular,cell,mitochondrion,cytosol,plasma membrane,
Tissue Specificity	Detected in primary skeletal muscle cells (at protein level). Ubiquitous.
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

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,

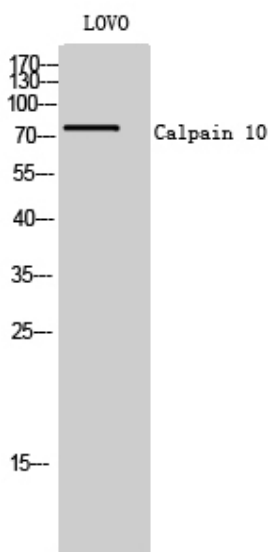
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of LOVO cells using Calpain 10 Polyclonal Antibody