



CAN1 Polyclonal Antibody

Catalog No	YP-Ab-07699
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;ELISA
Gene Name	CAPN1 CANPL1 PIG30
Immunogen	Synthesized peptide derived from part region of human protein
Specificity	CAN1 Polyclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, 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	WB 1:500-2000 ELISA 1:5000-20000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	CANP;CANP1;CANPL1;SPG76;muCANP;muCL;CAN1_HUMAN;CAPN1; Calcium-activated neutral proteinase 1 (CANP 1);Calpain mu-type;Calpain-1 large subunit;Cell proliferation-inducing gene 30 protein;Micromolar-calpain (muCANP);3.4.22.52;calpain 1;(mu/I) large subunit;CAN1;CAPN1 CANPL1 PIG30;Calpain-1 catalytic subunit (EC 3.4.22.52) (Calcium-activated neutral proteinase 1) (CANP 1) (Calpain mu-type) (Calpain-1 large subunit) (Cell proliferation-inducing gene 30 protein) (Micromolar-calpa
Observed Band	75,80 kDa
Calculated Molecular Weight	78 kDa
Cell Pathway	Cytoplasm . Cell membrane . Translocates to the plasma membrane upon Ca(2+) binding. In granular keratinocytes and in lower corneocytes, colocalizes with FLG and FLG2 (PubMed:21531719). .
Tissue Specificity	Ubiquitous.
Function	catalytic activity:Broad endopeptidase specificity.,cofactor:Binds 3 calcium ions., enzyme regulation:Activated by micromolar concentrations of calcium and inhibited by calpastatin.,function:Calcium-regulated non-lysosomal thiol-protease which catalyze limited proteolysis of substrates involved in cytoskeletal remodeling and signal transduction.,online information:Calpain,



similarity:Belongs to the peptidase C2 family.,similarity:Contains 1 calpain catalytic domain.,similarity:Contains 4 EF-hand domains.,subcellular location:Translocates to the plasma membrane upon Ca(2+) binding.,subunit:Forms a heterodimer with a small (regulatory) subunit (CAPNS1).,tissue specificity:Ubiquitous.,

Background

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],

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