

CAN1 Polyclonal Antibody

Catalog No :	YN2848
Reactivity :	Human;Mouse;Rat
Applications :	WB;ELISA
Target :	CAN1
Fields :	>>Protein processing in endoplasmic reticulum;>>Apoptosis;>>Necroptosis;>>Cellular senescence;>>Alzheimer disease;>>Pathways of neurodegeneration - multiple diseases;>>Shigellosis
Gene Name :	CAPN1 CANPL1 PIG30
Protein Name :	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
Human Gene Id :	823
Human Swiss Prot No :	P07384
Mouse Swiss Prot No :	O35350
Rat Swiss Prot No :	P97571
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
Dilution :	WB 1:500-2000 ELISA 1:5000-20000
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 :	78kD
Cell Pathway :	Apoptosis_Inhibition;Apoptosis_Mitochondrial;Apoptosis_Overview;Alzheimer's disease;
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],
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.,
Subcellular Location :	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). .
Expression :	Ubiquitous.

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