



# CAN1 Monoclonal Antibody

Catalog No	BYmab-07699
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
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
Immunogen	Synthesized peptide derived from part region of human protein
Specificity	CAN1 Monoclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	
Observed Band	78kD
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.,

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**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