



Calpain 2 (Phospho Ser50) rabbit pAb

Catalog No	YP-Ab-02437
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB; ELISA
Gene Name	CAPN2 CANPL2
Immunogen	Synthesized peptide derived from human Calpain 2 (Phospho Ser50)
Specificity	This antibody detects endogenous levels of Human,Mouse,Rat Calpain 2 (Phospho Ser50)
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 serum by affinity-chromatography using specific immunogen.
Dilution	WB 1:1000-2000 ELISA 1:5000-20000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Calpain 2;CAPN2 CANPL2;Calpain 2 (Phospho Ser50);Calpain-2 catalytic subunit (EC 3.4.22.53;Calcium-activated neutral proteinase 2;CANP 2;Calpain M-type;Calpain large polypeptide L2;Calpain-2 large subunit;Millimolar-calpain; M-calpain)
Observed Band	69kD
Calculated Molecular Weight	69kD
Cell Pathway	Cytoplasm. Cell membrane. Translocates to the plasma membrane upon Ca(2+) binding.
Tissue Specificity	Ubiquitous.
Function	catalytic activity:Broad endopeptidase specificity.,cofactor:Binds 3 calcium ions., enzyme regulation:Activated by 200-1000 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.,sequence caution:Contaminating sequence. Potential poly-A sequence.,similarity:Belongs to the peptidase C2 family.,similarity:Contains 1 calpain catalytic domain.,similarity:Contains 3 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 2. Multiple heterogeneous transcriptional start sites in the 5' UTR have been reported. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2009],

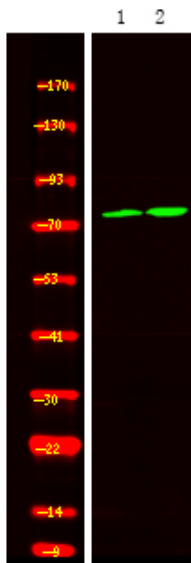
matters needing attention

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 1 A549 cell 2 LPS 100ng/mL 30min treated ,using primary antibody at 1:1000 dilution. Secondary antibody(catalog#:RS23920) was diluted at 1:10000