

Datasheet for ABIN264388
anti-CAPN1 antibody



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Overview

Quantity:	0.1 mg
Target:	CAPN1
Reactivity:	Human, Mouse, Rat, Cow
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CAPN1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunoprecipitation (IP), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	Calpain purified from human placenta. Genename: CAPN1
Clone:	15C10
Isotype:	IgG1
Specificity:	This antibody (large subunit, p80) recognizes the 80 kDa subunit of μ -Calpain as well as two smaller proteins that are presumed to be autolysis products.
Characteristics:	Synonyms: Calpain mu-type, muCANP, CAPN1, CANPL1, PIG30, CANP1, Calpain-1 catalytic subunit, Calpain-1 large subunit, Calcium-activated neutral proteinase 1, Micromolar-calpain, Cellproliferation-inducing gene 30 protein
Purification:	Standard chromatographic techniques.

Target Details

Target:	CAPN1
Alternative Name:	Calpain-1 (CAPN1 Products)
Background:	The calpains are calcium-dependent cysteine proteases that are widely expressed in mammalian systems. Both m-calpain (calpain II) and -calpain (calpain I) are composed of an 80 kD subunit and a 30 kD subunit. Whereas the 30 kDa subunit is shared by both enzymes, the larger catalytic subunits are different and exhibit the distinct Ca ++ requirements that are suggested by their names. Whereas m-calpain requires millimolar (mM) levels of calcium, μ-calpain is active at micromolar (μM) concentrations of Ca⁺⁺. In addition to the ubiquitously expressed m- and u-calpains, some tissue-specific calpains have been identified. The calpains appear to serve multiple physiological roles, and ideas concerning the functions of these enzymes are in a state of rapid flux.Synonyms: CANP1, CANPL1, CAPN1, Calcium-activated neutral proteinase 1, Calpain mu-type, Calpain-1 catalytic subunit, Calpain-1 large subunit, Cell proliferation-inducing gene 30 protein, Micromolar-calpain, PIG30, muCANP
Gene ID:	823
UniProt:	P07384

Application Details

Application Notes:	ELISA: 0.5-1 μg/mL. Western blot: 0.5-1 μg/mL. Immunoprecipitation of both the native and denatured protein: 1-2 μg/mL. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

Handling

Buffer:	20 mM Sodium Phosphate, pH 7.5, 150 mM Sodium Chloride, 50 % Glycerol and 3 mM Sodium Azide as preservative.
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store the antibody at -20 °C. Avoid repeated freezing and thawing. Shelf life: One year from despatch.

Handling

Expiry Date: 12 months