

AM05265PU-N**Monoclonal Antibody to Calpain (CAPN1+CAPN2) - Purified**

Alternate names:	CANP-2, CANP1, CANPL1, CANPL2, CAPN1, CAPN2
Quantity:	0.1 mg
Concentration:	Lot specific
Background:	<p>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, u-calpain is active at micromolar (uM) 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.</p>
Host / Isotype:	Mouse / IgG1
Recommended Isotype Controls:	SM10P (for use in human samples), AM03095PU-N
Clone:	28F3
Immunogen:	Calpain purified from human placenta.
Format:	State: Liquid (sterile filtered) purified IgG fraction (> 95% pure). Purification: Standard chromatographic techniques. Buffer System: 0.02 M Sodium Phosphate, pH 7.5, 0.15 M Sodium Chloride, 50% Glycerol and 3 mM Sodium Azide as preservative.
Applications:	ELISA: 0.5-1 ug/ml. Western blot: 0.5-1 ug/ml. Immunoprecipitation of both the native and denatured protein: 1-2 ug/ml. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody specifically recognizes the 28-30 kD subunit of m-calpain and u-calpain. React with human and bovine calpains, but does not recognize calpains from rat or mouse. Species: Human and Bovine. Other species not tested.
Storage:	Store the antibody at -20°C. Avoid repeated freezing and thawing. Shelf life: One year from despatch.