

Product datasheet for AM05265PU-N

OriGene Technologies, Inc.

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Calpain (CAPN1+CAPN2) Mouse Monoclonal Antibody [Clone ID: 28F3]

Product data:

Product Type: Primary Antibodies

Clone Name: 28F3

Applications: ELISA, IP, WB

Recommended Dilution: 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.

Reactivity: Bovine, Human

Host: Mouse Isotype: IgG1

Clonality: Monoclonal

Immunogen: Calpain purified from human placenta.

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.

Formulation: 0.02 M Sodium Phosphate, pH 7.5, 0.15 M Sodium Chloride, 50% Glycerol and 3 mM Sodium

Azide as presevtative.

State: Purified

State: Liquid (sterile filtered) purified IgG fraction (> 95% pure).

Concentration: lot specific

Purification: Standard chromatographic techniques.

Conjugation: Unconjugated

Storage: Store the antibody at -20°C.

Avoid repeated freezing and thawing.

Stability: Shelf life: One year from despatch.



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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, 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.

Synonyms:

CAPN2, CANPL2, CANP-2, CAPN1, CANPL1, CANP1