

Product datasheet for AM05266PU-N

OriGene Technologies, Inc.

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Calpain 1 (CAPN1) Mouse Monoclonal Antibody [Clone ID: 15C10]

Product data:

Product Type: Primary Antibodies

Clone Name: 15C10

Applications: ELISA, IHC, IP, WB **Recommended Dilution:** 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.

This Clone has been described to be suitable for Immunohistochemistry on Paraffin Sections.

Reactivity: Bovine, Human, Mouse, Rat

Host: Mouse Isotype: IgG1

Clonality: Monoclonal

Immunogen: Calpain purified from Human placenta.

Specificity: This antibody (large subunit, p80) recognizes the 80 kD subunit of μ -Calpain as well as two

smaller proteins that are presumed to be autolysis products.

Formulation: 20 mM Sodium Phosphate, pH 7.5, 150 mM Sodium Chloride, 50% Glycerol and 3 mM

Sodium Azide as preservative.

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.

Gene Name: calpain 1

Database Link: Entrez Gene 823 Human

P07384





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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, μ -calpain is active at micromolar (μ M) 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: Calpain mu-type, muCANP, CAPN1, CANPL1, PIG30, CANP1

Note: Predicted Molecular Weight: 80 kDa