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Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Calpain I (large subunit, p80). Mouse Monoclonal Antibody

BACKGROUND

The calpains are calcium-dependent cysteine proteases that are widely expressed in mammalian systems. Both m-calpain (calpain II) and μ -calpain (calpain I) are composed of an 80 kD subunit and a 30 kD subunit. Whereas the 30 kD 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 μ 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.

IMMUNOGEN

Hybridoma produced by the fusion of splenocytes from mice immunized with human calpain I purified from placenta with mouse myeloma.

POSITIVE CONTROL/TISSUE EXPRESSION

COMMENTS

Application: Use at 0.5-1 μ g/ml for ELISA and western blot, 1-2 μ g/ml for immunoprecipitation.

ORDERING INFORMATION

CATALOG NUMBER

X1013

SIZE

100 μ g

FORM

Unconjugated

HOST/CLONE

Mouse Clone 15C10

FORMULATION

Provided as sterile filtered solution containing 20 mM sodium phosphate, 150 mM sodium chloride, 50% glycerol at pH 7.5 and 3 mM sodium azide

CONCENTRATION

See vial for concentration

ISOTYPE

IgG1

APPLICATIONS

Western Blot, Immunoprecipitation, Enzyme Immunoassay

SPECIES REACTIVITY

Human, Mouse, Rat, Bovine

ACCESSION NUMBER

P07384, Human

PURIFICATION

Protein A/G Chromatography

SHIP CONDITIONS

Ship at ambient temperature, freeze upon arrival

STORAGE CUSTOMER

Product should be stored at -20°C. Aliquot to avoid freeze/thaw cycles

STABILITY

Antibodies are stable for one year from purchase if stored frozen

REFERENCES

1. Adamec, E., et al. "Calpain I activation in rat hippocampal neurons in culture is NMDA receptor selective and not essential for excitotoxic cell death." *Brain Res. Mol. Brain Res.* 1998, 54, 35-48
2. Guttman, R.P. et al. "Oxidation inhibits substrate proteolysis by calpain I but not autolysis." *J. Biol. Chem.* 1997, 272, 2005-2012