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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Calpain I, II (small subunit). 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 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 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 with mouse myeloma.

POSITIVE CONTROL/TISSUE EXPRESSION

COMMENTS

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

ORDERING INFORMATION

CATALOG NUMBER

X1012

SIZE

100 μ g

FORM

Unconjugated

HOST/CLONE

Mouse Clone 28F3

FORMULATION

Provided as a concentration of 1 mg/ml in 0.02M sodium phosphate, pH 7.5, 0.15M sodium chloride, 50% glycerol, 3mM sodium azide.

CONCENTRATION

See vial for concentration

ISOTYPE

IgG1

APPLICATIONS

Western Blot, Immunoprecipitation, Enzyme Immunoassay

SPECIES REACTIVITY

Human, Bovine

ACCESSION NUMBER

P17655, Human

PURIFICATION

Protein A/G Chromatography

SHIP CONDITIONS

Room Temperature

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