

Native Bovine CAPN2

Cat. No. CAPN2-350B Lot. No. (See product label)

SPECIFICATION

Product Overview	CAPN2 was purified by sequential chromatography through DEAE-Sepharose, A 1.5m Bio-Gel, and Phenyl-Sepharose CL-4B columns.
Species	Bovine
Source	Bovine Myocardium
Form	50mM Imidazole-HCl, 0.2mM EDTA, 1mM DTT and 50% glycerol, pH 7.4.
Molecular Mass	CAPN2 consists of an 80 kDa large subunit and a 30 kDa small subunit.
Purity	Greater than 90% as determined by SDS-PAGE.
Applications	This protein can be used for immunoblots, adsorption experiments in immunohistochemistry, radioimmunoassay and intracellular injection. For adsorption we suggest the following procedure: A- Dilute 1µl of the antiserum against m-calpain in 1ml of the usual buffer for immunohistochemistry (final dilution 1:1,000). B- Add 1µg of protein to 1ml of the diluted antibody solution and mix well. C- Incubate for at least 6 hours in the cold. D- Apply to tissue-sections and incubate for 3 days. E- Complete the immunohistochemical reaction as usual (biotinylated second antibody, ABC-complex, DAB). As a result, the immunostaining should be strongly reduced or even completely prevented.
Stability	CAPN2 although stable at 10°C for 1 week, should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

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Please prevent freeze-thaw cycles.

GENE INFORMATION

Gene Name	CAPN2 calpain 2, (m/II) large subunit [<i>Bos taurus</i> (cattle)]
Official Symbol	CAPN2
Synonyms	calpain-2 catalytic subunit; CANP 2; M-calpaincalpain M-type; millimolar-calpain; calpain-2 large subunit; calpain, large polypeptide L2; calcium-activated neutral proteinase 2
Gene ID	281662
mRNA Refseq	NM_001103086
Protein Refseq	NP_001096556
UniProt ID	Q27971
Chromosome Location	chromosome: 16
Pathway	Alzheimer"s disease, organism-specific biosystem; Alzheimer"s disease, conserved biosystem; Apoptosis, organism-specific biosystem
Function	calcium ion binding; calcium-dependent cysteine-type endopeptidase activity; calcium-dependent cysteine-type endopeptidase activity

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