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CAPN2 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP6978b

Specification

CAPN2 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession P17655

CAPN2 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 824

Other Names
Calpain-2 catalytic subunit, Calcium-activated neutral proteinase 2, CANP 2, Calpain M-type, Calpain large polypeptide L2, Calpain-2 large subunit, Millimolar-calpain, M-calpain, CAPN2, CANPL2

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP6978b was selected from the C-term region of human CAPN2. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

CAPN2 Antibody (C-term) Blocking Peptide - Protein Information

CAPN2 Antibody (C-term) Blocking Peptide - Background

The calpains, calcium-activated neutral proteases, are nonlysosomal, intracellular cysteine proteases. The mammalian calpains include ubiquitous, stomach-specific, and muscle-specific proteins. The ubiquitous enzymes consist of heterodimers with distinct large, catalytic subunits associated with a common small, regulatory subunit. CAPN2 is the large subunit of the ubiquitous enzyme, calpain 2.

CAPN2 Antibody (C-term) Blocking Peptide - References

Mizuta,I., et.al., Hum. Genet. 124 (1), 89-94 (2008)

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Name CAPN2

Synonyms CANPL2

Function
Calcium-regulated non-lysosomal thiol-protease which catalyzes limited proteolysis of substrates involved in cytoskeletal remodeling and signal transduction. Proteolytically cleaves MYOC at 'Arg-226' (PubMed:17650508). Proteolytically cleaves CPEB3 following neuronal stimulation which abolishes CPEB3 translational repressor activity, leading to translation of CPEB3 target mRNAs (By similarity).

Cellular Location
Cytoplasm. Cell membrane. Note=Translocates to the plasma membrane upon Ca(2+) binding

Tissue Location
Ubiquitous.

CAPN2 Antibody (C-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides