

CAPN2 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP6978b**Specification**

CAPN2 Antibody (C-term) Blocking Peptide - Product InformationPrimary 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](/products/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**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: <http://www.uniprot.org/citations/17650508> target="_blank">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](#)

CAPN2 Antibody (C-term) Blocking Peptide - Images**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)