

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

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**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](/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</a>). 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  $\text{Ca}^{2+}$  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)