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CAPN10 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP7347a

Specification

CAPN10 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession O9HC96

CAPN10 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 11132

Other Names
Calpain-10, 3422-, Calcium-activated neutral proteinase 10, CANP 10, CAPN10, KIAA1845

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP7347a was selected from the N-term region of human CAPN10. 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.

CAPN10 Antibody (N-term) Blocking Peptide - Protein Information

Name CAPN10

CAPN10 Antibody (N-term) Blocking Peptide - Background

CAPN10 is ubiquitous, well-conserved family of calcium-dependent, cysteine proteases. This protein is heterodimers consisting of an invariant small subunit and variable large subunits. The large catalytic subunit has four domains: domain I, the N-terminal regulatory domain that is processed upon calpain activation; domain II, the protease domain; domain III, a linker domain of unknown function; and domain IV, the calmodulin-like calcium-binding domain. It is an atypical calpain in that it lacks the calmodulin-like calcium-binding domain and instead has a divergent C-terminal domain. The protein is similar in organization to calpains 5 and 6.

CAPN10 Antibody (N-term) Blocking Peptide - References

Unsal,T., Konac,E. J. Assist. Reprod. Genet. 26 (4), 205-216 (2009)Garcia-Escalante,M.G. Invest Clin 50 (1), 65-76 (2009)Yilmaz,M., Yurtcu,E. J. Endocrinol. Invest. 32 (1), 13-17 (2009)Evans,J.C., Frayling,T.M. Am. J. Hum. Genet. 69 (3), 544-552 (2001)

Synonyms KIAA1845

Function
Calcium-regulated non-lysosomal thiol-protease which catalyzes limited proteolysis of substrates involved in cytoskeletal remodeling and signal transduction. May play a role in insulin-stimulated glucose uptake.

Tissue Location
Detected in primary skeletal muscle cells (at protein level). Ubiquitous.

CAPN10 Antibody (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides