

**ACTA1/Alpha-actin Antibody (C-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP14779b****Specification**

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**ACTA1/Alpha-actin Antibody (C-term) Blocking peptide - Product Information**Primary Accession [P68133](#)**ACTA1/Alpha-actin Antibody (C-term) Blocking peptide - Additional Information****Gene ID** 58**Other Names**

Actin, alpha skeletal muscle, Alpha-actin-1, ACTA1, ACTA

**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.

**ACTA1/Alpha-actin Antibody (C-term) Blocking peptide - Protein Information****Name** ACTA1**Synonyms** ACTA**Function**

Actins are highly conserved proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells.

**Cellular Location**

Cytoplasm, cytoskeleton.

**ACTA1/Alpha-actin Antibody (C-term) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

**ACTA1/Alpha-actin Antibody (C-term) Blocking peptide - Images****ACTA1/Alpha-actin Antibody (C-term) Blocking peptide - Background**

The product encoded by this gene belongs to the actin family of proteins, which are highly conserved proteins that play a role in cell motility, structure and integrity. Alpha, beta and gamma actin isoforms have been identified, with alpha actins being a major constituent of the contractile apparatus, while beta and gamma actins are involved in the regulation of cell motility. This actin is an alpha actin that is found in skeletal muscle. Mutations in this gene cause nemaline myopathy type 3, congenital myopathy with excess of thin myofilaments, congenital myopathy with cores, and congenital myopathy with fiber-type disproportion, diseases that lead to muscle fiber defects.

#### **ACTA1/Alpha-actin Antibody (C-term) Blocking peptide - References**

Kim, E.Y., et al. Am. J. Physiol. Renal Physiol. 299 (3), F594-F604 (2010) : Haigh, S.E., et al. Neuromuscul. Disord. 20(6):363-374(2010) Yu, G., et al. J Clin Neurosci 17(6):766-769(2010) Yu, C.H., et al. PLoS ONE 5 (7), E11878 (2010) : Licastro, F., et al. Curr. Pharm. Des. 16(7):783-788(2010)