

## ACTN1 Antibody (N-term) Blocking Peptide

Synthetic peptide  
Catalog # BP8512a

### Specification

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#### ACTN1 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession [P12814](#)

#### ACTN1 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 87

##### Other Names

Alpha-actinin-1, Alpha-actinin cytoskeletal isoform, F-actin cross-linking protein, Non-muscle alpha-actinin-1, ACTN1

##### Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP8512a](/products/AP8512a) was selected from the N-term region of human ACTN1. 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.

#### ACTN1 Antibody (N-term) Blocking Peptide - Protein Information

Name ACTN1

##### Function

F-actin cross-linking protein which is thought to anchor actin to a variety of intracellular structures. Association with IGSF8 regulates the immune synapse formation and is required for efficient T- cell activation (PubMed: <http://www.uniprot.org/citations/22689882>).

##### Cellular Location

Cytoplasm, cytoskeleton. Cytoplasm, myofibril, sarcomere, Z line. Cell membrane. Cell junction {ECO:0000250|UniProtKB:Q9Z1P2}. Cell projection, ruffle {ECO:0000250|UniProtKB:Q7TPR4}. Note=Colocalizes with MYOZ2 and PPP3CA at the Z-line of heart and skeletal muscle. Colocalizes with PSD in membrane ruffles and central reticular structures {ECO:0000250|UniProtKB:Q7TPR4}

## **ACTN1 Antibody (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

## **ACTN1 Antibody (N-term) Blocking Peptide - Images**

## **ACTN1 Antibody (N-term) Blocking Peptide - Background**

ACTN1 is a F-actin cross-linking protein which is thought to anchor actin to a variety of intracellular structures. This is a bundling protein.

## **ACTN1 Antibody (N-term) Blocking Peptide - References**

Zhang,Z., et.al., J. Biol. Chem. 281 (3), 1746-1754 (2006)