

ACTN2 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP14950b**Specification****ACTN2 Antibody (C-term) Blocking Peptide -
Product Information**Primary Accession [P35609](#)**ACTN2 Antibody (C-term) Blocking Peptide -
Additional Information****Gene ID 88****Other Names**

Alpha-actinin-2, Alpha-actinin skeletal muscle isoform 2, F-actin cross-linking protein, ACTN2

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.

**ACTN2 Antibody (C-term) Blocking Peptide -
Protein Information****Name** ACTN2**Function**

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

Cellular Location

Cytoplasm, myofibril, sarcomere, Z line.
Note=Colocalizes with MYOZ1 and FLNC at the Z-lines of skeletal muscle

**ACTN2 Antibody (C-term) Blocking Peptide
- Background**

Alpha actinins belong to the spectrin gene superfamily which represents a diverse group of cytoskeletal proteins, including the alpha and beta spectrins and dystrophins. Alphaactinin is an actin-binding protein with multiple roles indifferent cell types. In nonmuscle cells, the cytoskeletal isoform is found along microfilament bundles and adherens-type junctions, where it is involved in binding actin to the membrane. In contrast, skeletal, cardiac, and smooth muscle isoforms are localized to the Z-disc and analogous dense bodies, where they help anchor the myofibrillar actin filaments. This gene encodes a muscle-specific, alpha actinin isoform that is expressed in both skeletal and cardiac muscles.

**ACTN2 Antibody (C-term) Blocking Peptide
- References**

Saus, E., et al. J Psychiatr Res 44(14):971-978(2010) Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) : Zimmerman, R.S., et al. Genet. Med. 12(5):268-278(2010) Joslyn, G., et al. Alcohol. Clin. Exp. Res. 34(5):800-812(2010) Chiu, C., et al. J. Am. Coll. Cardiol. 55(11):1127-1135(2010)

Tissue Location

Expressed in both skeletal and cardiac muscle.

**ACTN2 Antibody (C-term) Blocking Peptide
- Protocols**

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

- [Blocking Peptides](#)