



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

Synthetic peptide Catalog # BP14950b

#### **Specification**

ACTN2 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession <u>P35609</u>

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**

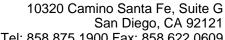
Cytoplasm, myofibril, sarcomere, Z line. Note=Colocalizes with MYOZ1 and FLNC at the Z-lines of skeletal muscle

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

Alpha actinins belong to the spectrin gene superfamilywhich 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 isoformis 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 theZ-disc and analogous dense bodies, where they help anchor themyofibrillar actin filaments. This gene encodes a muscle-specific, alpha actinin isoform that is expressed in both skeletal andcardiac 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)



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**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