

ACTN2 Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14950b**Specification**

ACTN2 Antibody (C-term) - Product Information

| | |
|-------------------|-------------------------------------------------------------------------------|
| Application | WB,E |
| Primary Accession | P35609 |
| Other Accession | O9JI91 , Q3ZC55 , NP_001094.1 |
| Reactivity | Mouse |
| Predicted | Bovine |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | Rabbit IgG |
| Calculated MW | 103854 |
| Antigen Region | 751-779 |

ACTN2 Antibody (C-term) - Additional Information**Gene ID** 88**Other Names**

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

Target/Specificity

This ACTN2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 751-779 amino acids from the C-terminal region of human ACTN2.

Dilution

WB~~1:1000

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

ACTN2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

ACTN2 Antibody (C-term) - 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

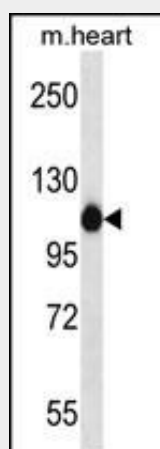
Tissue Location

Expressed in both skeletal and cardiac muscle.

ACTN2 Antibody (C-term) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

ACTN2 Antibody (C-term) - Images

ACTN2 Antibody (C-term) (Cat. #AP14950b) western blot analysis in mouse heart tissue lysates (35ug/lane). This demonstrates the ACTN2 antibody detected the ACTN2 protein (arrow).

ACTN2 Antibody (C-term) - 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. Alpha actinin is an actin-binding protein with multiple roles in different 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) - 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)
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