

# ACTN2 Rabbit pAb

Catalog No.: A3718

3 Publications

## Basic Information

### Observed MW

104kDa

### Calculated MW

104kDa

### Category

Primary antibody

### Applications

ELISA, WB, IHC-P, IF/ICC

### Cross-Reactivity

Human, Mouse, Rat

## 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. Several transcript variants encoding different isoforms have been found for this gene.

## Recommended Dilutions

|        |                |
|--------|----------------|
| WB     | 1:500 - 1:2000 |
| IHC-P  | 1:50 - 1:200   |
| IF/ICC | 1:50 - 1:200   |

## Immunogen Information

### Gene ID

88

### Swiss Prot

P35609

### Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 1-250 of human ACTN2 (NP\_001094.1).

### Synonyms

MPD6; CMH23; CMYP8; CMD1AA; MYOCOZ; ACTN2

## Contact

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## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

Affinity purification

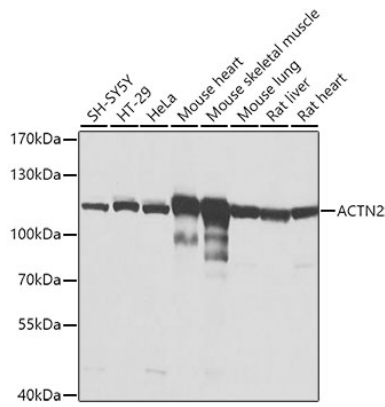
### Storage

Store at -20°C. Avoid freeze / thaw cycles.

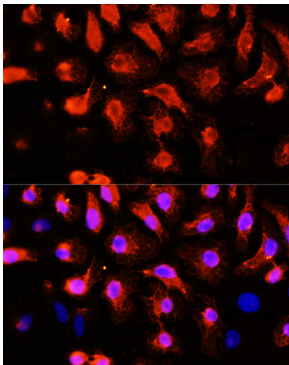
Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

## Validation Data

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Western blot analysis of extracts of various cell lines, using ACTN2 antibody (A3718) at 1:1000 dilution.  
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 1s.



Immunofluorescence analysis of HeLa cells using ACTN2 antibody (A3718) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.