

**Anti-ACTN2 Rabbit Monoclonal Antibody**  
**Catalog # ABO13737****Specification**

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**Anti-ACTN2 Rabbit Monoclonal Antibody - Product Information**

Application	WB, IHC, IP
Primary Accession	<a href="#">P35609</a>
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid

**Description**

Anti-ACTN2 Rabbit Monoclonal Antibody . Tested in WB, IHC, IP applications. This antibody reacts with Human, Mouse, Rat.

**Anti-ACTN2 Rabbit Monoclonal Antibody - Additional Information**

**Gene ID** 88

**Other Names**

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

**Calculated MW**

103854 MW KDa

**Application Details**

WB 1:500-1:2000<br>IHC 1:50-1:200<br>IP 1:50

**Subcellular Localization**

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

**Tissue Specificity**

Expressed in both skeletal and cardiac muscle.

**Contents**

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

**Immunogen**

A synthesized peptide derived from human ACTN2

**Purification**

Affinity-chromatography

**Storage**

**Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated**

freeze-thaw cycles.

## Anti-ACTN2 Rabbit Monoclonal Antibody - 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

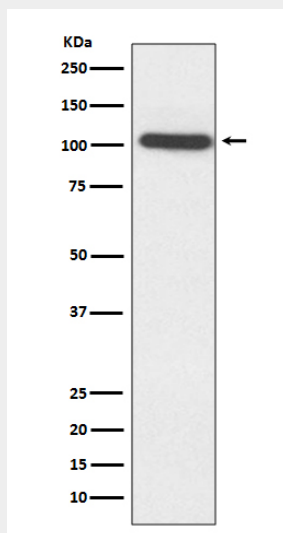
Expressed in both skeletal and cardiac muscle.

## Anti-ACTN2 Rabbit Monoclonal Antibody - 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](#)

## Anti-ACTN2 Rabbit Monoclonal Antibody - Images



Western blot analysis of ACTN2 expression in HepG2 cell lysate.

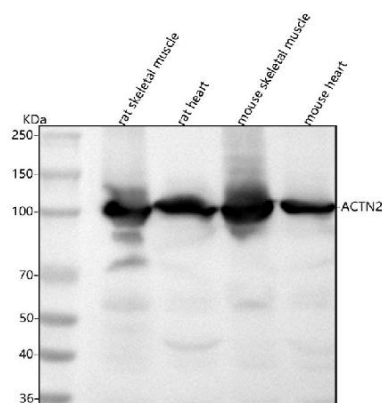


Figure 1. Western blot analysis of ACTN2 using anti-ACTN2 antibody (M03673).

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: rat skeletal muscle tissue lysates,

Lane 2: rat heart tissue lysates,

Lane 3: mouse skeletal muscle tissue lysates,

Lane 4: mouse heart tissue lysates.

After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-ACTN2 antigen affinity purified monoclonal antibody (Catalog # M03673) at 1:500 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for ACTN2 at approximately 104 kDa. The expected band size for ACTN2 is at 104 kDa.