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Anti-ACTN2 Rabbit Monoclonal Antibody

Catalog # ABO13737

Specification

Anti-ACTN2 Rabbit Monoclonal Antibody - Product Information

Application	**WB, IHC, IP**
Primary Accession	P35609
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
IHC 1:50-1:200
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

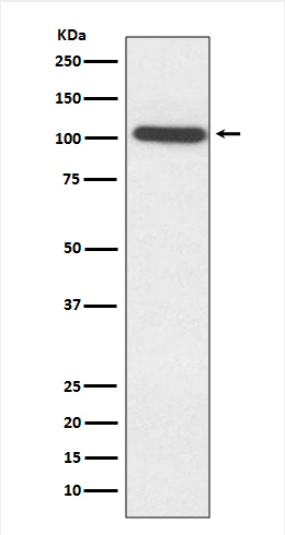
Tissue Location
Expressed in both skeletal and cardiac muscle.

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 Cytomety
- Cell Culture

Anti-ACTN2 Rabbit Monoclonal Antibody - Images



Western blot analysis of ACTN2 expression in HepG2 cell lysate.

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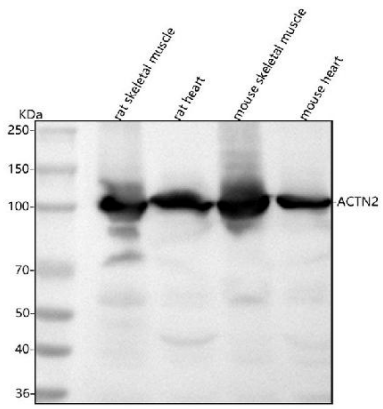

Figure 1. Western blot analysis of ACTN2 using anti-ACTN2 antibody (M03673).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: rat skeletal muscle 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.