

Anti-alpha smooth muscle Actin ACTA2 Rabbit Monoclonal Antibody
Catalog # ABO14304

Specification

Anti-alpha smooth muscle Actin ACTA2 Rabbit Monoclonal Antibody - Product Information

| | |
|-------------------|------------------------|
| Application | WB, IHC, IF, ICC, FC |
| Primary Accession | P62736 |
| Host | Rabbit |
| Isotype | Rabbit IgG |
| Reactivity | Rat, Human, Mouse |
| Clonality | Monoclonal |
| Format | Liquid |

Description

Anti-alpha smooth muscle Actin ACTA2 Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat.

Anti-alpha smooth muscle Actin ACTA2 Rabbit Monoclonal Antibody - Additional Information

Gene ID 59

Other Names

Actin, aortic smooth muscle, 3.6.4.-, Alpha-actin-2, Cell growth-inhibiting gene 46 protein, Actin, aortic smooth muscle, intermediate form, ACTA2, ACTSA, ACTVS

Calculated MW

42009 MW KDa

Application Details

WB 1:1000-1:10000
IHC 1:500-1:1000
ICC/IF 1:100-1:500
FC 1:20

Subcellular Localization

Cytoplasm, cytoskeleton.

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 alpha smooth muscle Actin

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-alpha smooth muscle Actin ACTA2 Rabbit Monoclonal Antibody - Protein Information

Name ACTA2

Synonyms ACTSA, ACTVS

Function

Actins are highly conserved proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells.

Cellular Location

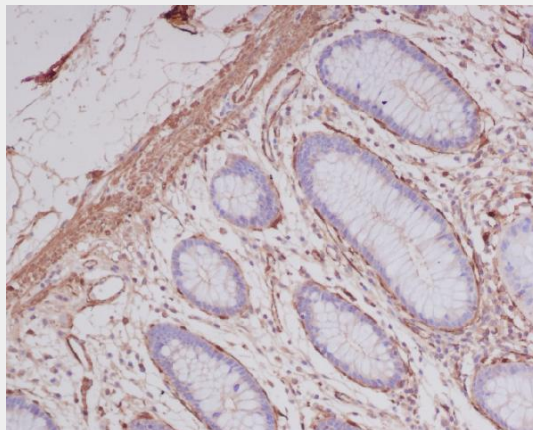
Cytoplasm, cytoskeleton.

Anti-alpha smooth muscle Actin ACTA2 Rabbit Monoclonal Antibody - Protocols

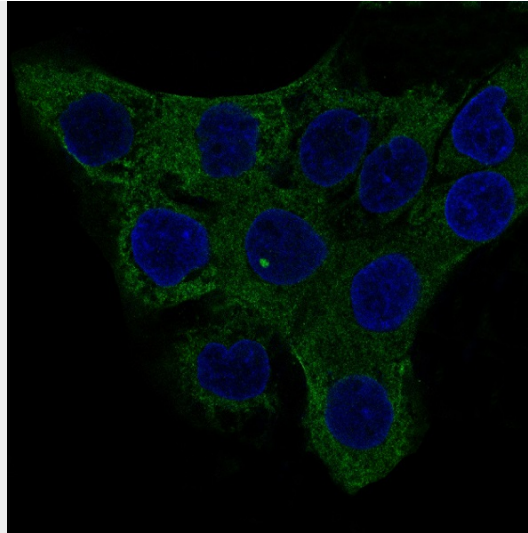
Provided below are standard protocols that you may find useful for product applications.

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

Anti-alpha smooth muscle Actin ACTA2 Rabbit Monoclonal Antibody - Images



Immunohistochemical analysis of paraffin-embedded human colon, using alpha smooth muscle Actin Antibody.



Immunofluorescent analysis of A431 cells, using alpha smooth muscle Actin Antibody .

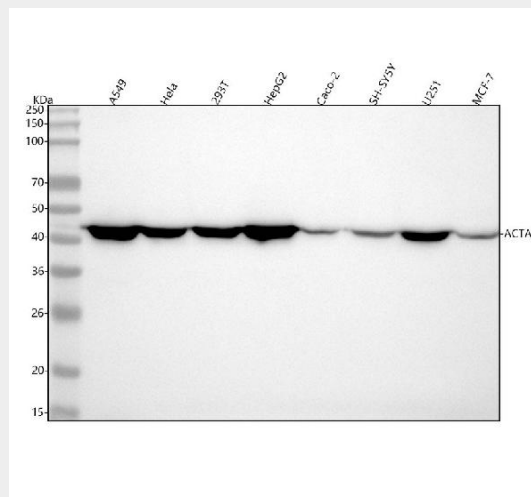


Figure 1. Western blot analysis of ACTA2 using anti-ACTA2 antibody (M01072-1). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

- Lane 1: human A549 whole cell lysates,
- Lane 2: human Hela whole cell lysates,
- Lane 3: human 293T whole cell lysates,
- Lane 4: human HepG2 whole cell lysates,
- Lane 5: human Caco-2 whole cell lysates,
- Lane 6: human SH-SY5Y whole cell lysates,
- Lane 7: human U251 whole cell lysates,
- Lane 8: human MCF-7 whole cell 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-ACTA2 antigen affinity purified monoclonal antibody (Catalog # M01072-1) at 1:1000 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 ACTA2 at approximately 42 kDa. The expected band size for ACTA2 is at 42 kDa.

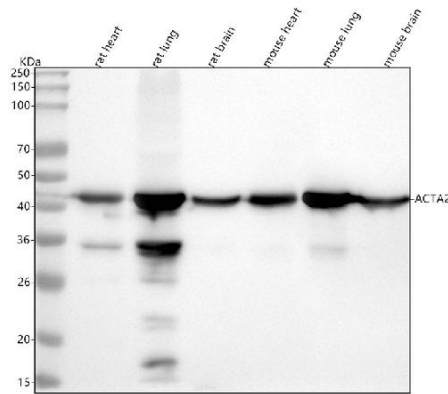


Figure 2. Western blot analysis of ACTA2 using anti-ACTA2 antibody (M01072-1).

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 heart tissue lysates,
- Lane 2: rat lung tissue lysates,
- Lane 3: rat brain tissue lysates,
- Lane 4: mouse heart tissue lysates,
- Lane 5: mouse lung tissue lysates,
- Lane 6: mouse brain 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-ACTA2 antigen affinity purified monoclonal antibody (Catalog # M01072-1) at 1:1000 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 ACTA2 at approximately 42 kDa. The expected band size for ACTA2 is at 42 kDa.