

Anti-alpha smooth muscle Actin ACTA2 Rabbit Monoclonal Antibody

Catalog # ABO14304

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.

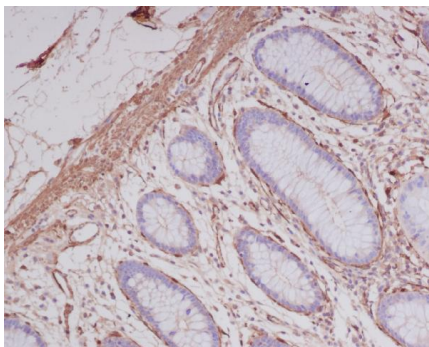
Additional Information

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
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.
Source	Eukaryota
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.
Clone Names	Clone: EO-1
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.

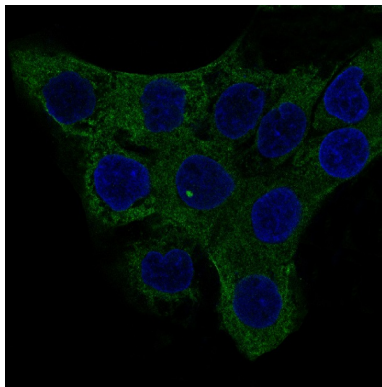
Protein Information

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.

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 .

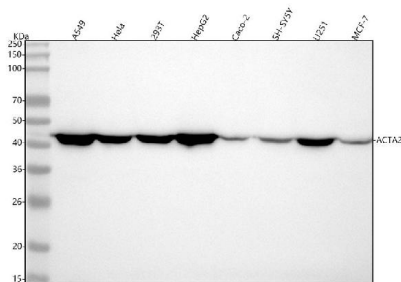


Figure 1. Western blot analysis of ACTA2 using anti-ACTA2 antibody (M01072-1).

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.

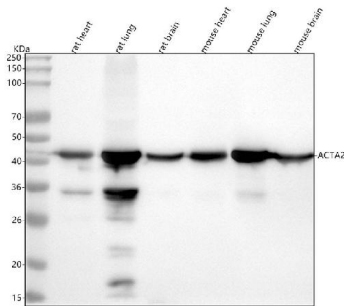


Figure 2. Western blot analysis of ACTA2 using anti-ACTA2 antibody (M01072-1).

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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.