

Anti-Actin ACTA1 Rabbit Monoclonal Antibody

Catalog Number: M02014-1

About ACTA1

F-actin cross-linking protein which is thought to anchor actin to a variety of intracellular structures. This is a bundling protein. Probably involved in vesicular trafficking via its association with the CART complex. The CART complex is necessary for efficient transferrin receptor recycling but not for EGFR degradation.

Overview

Product Name	Anti-Actin ACTA1 Rabbit Monoclonal Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Actin ACTA1 Rabbit Monoclonal Antibody catalog # M02014-1. Tested in WB, IHC, ICC/IF, IP, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat.
Application	Flow Cytometry, IP, IF, IHC, ICC, WB
Clonality	Monoclonal BE-1
Formulation	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
Storage Instructions	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.
Host	Rabbit
Uniprot ID	P68133

Technical Details

Immunogen	A synthesized peptide derived from human Actin
Isotype	Rabbit IgG
Form	Liquid
Concentration	Actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.
Purification	Affinity-chromatography
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used:

	WB 1:3000-1:20000 IHC 1:50-1:200 ICC/IF 1:50-1:200 IP 1:50 FC 1:50
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Anti-Actin ACTA1 Rabbit Monoclonal Antibody (M02014-1) Images

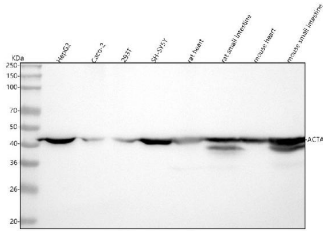


Figure 1. Western blot analysis of ACTA1 using anti-ACTA1 antibody (M02014-1).

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 HepG2 whole cell lysates,

Lane 2: human Caco-2 whole cell lysates,

Lane 3: human 293T whole cell lysates,

Lane 4: human SH-SY5Y whole cell lysates,

Lane 5: rat heart tissue lysates,

Lane 6: rat small intestine tissue lysates,

Lane 7: mouse heart tissue lysates,

Lane 8: mouse small intestine 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-ACTA1 antigen affinity purified monoclonal antibody

(Catalog # M02014-1) at 1:3000 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 1:500 for 1.5 hour at RT. The signal

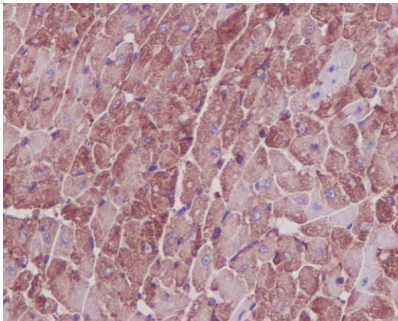
is developed using an Enhanced Chemiluminescent

detection (ECL) kit (Catalog # EK1002) with Tanon 5200

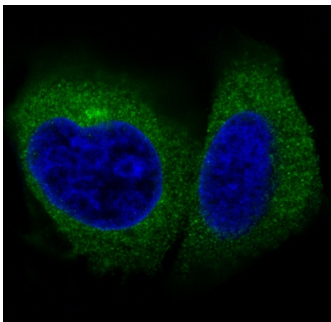
system. A specific band was detected for ACTA1 at

approximately 42 kDa. The expected band size for ACTA1 is

at 42 kDa.

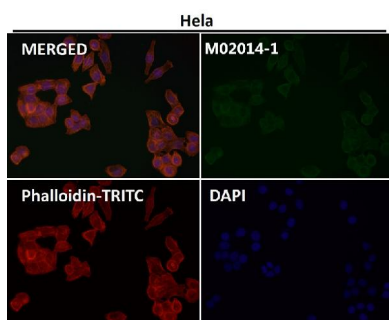


Immunohistochemical analysis of paraffin-embedded mouse heart, using Actin Antibody.

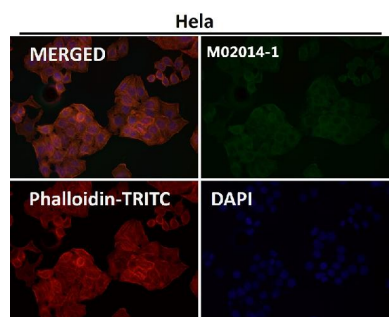


Immunofluorescent analysis of HeLa cells, using Actin Antibody.

Immunofluorescent analysis using the Antibody at 1:50



dilution.



Immunofluorescent analysis using the Antibody at 1:50 dilution.

8 Publications Citing This Product

1. PubMed ID: 32908568, Shen J,Wei W,Wang X,Yang J,Lu L,Lv X,Xue X.Proliferation of Vascular Smooth Muscle Cells under ox-LDL Is Regulated by Alismatis rhizoma Decoction via InhibitingERK1/2 and miR-17-92a Cluster Activation.Evid Based Complement Alternat Med.2020 Aug 22;2020:72
2. PubMed ID: 32390601, Cheng J,Luan J,Chen P,Kuang X,Jiang P,Zhang R,Chen S,Cheng F,Gou X.Immunosuppressive receptor LILRB1 acts as a potential regulator in hepatocellular carcinoma by integrating with SHP1.Cancer Biomark.2020; 28(3):309-319.doi:10.3233/CBM-190940.PMID:32390601
3. PubMed ID: 33221387, Sandulescu T, Weniger J, Philippou S, Mücke T, Naumova EA, Arnold WH. Immunohistochemical evidence of striated muscle cells within midfacial superficial musculoaponeurotic system. Ann Anat. 2020 Nov 19:151647. doi: 10.1016/j.aanat.2020.151647. Epub ahead

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