BOSTER BIOLOGICAL TECHNOLOGY
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Anti-Actin ACTA1 Rabbit Monoclonal Antibody

Catalog Number: M02014-1

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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 stabilizing components, phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
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

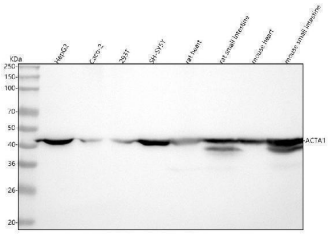
Immunogen	A synthesized peptide derived from human Actin
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5mg/ml
Purification	Affinity-chromatography
Suggested Dilutions	WB 1:1000-5000

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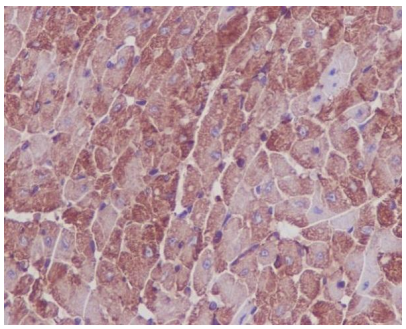
	IHC 1:50-200 ICC/IF 1:50-200 IP 1:20 FC 1:20

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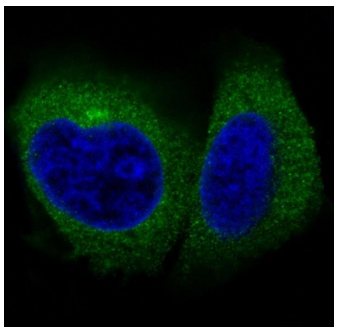
Anti-Actin ACTA1 Rabbit Monoclonal Antibody (M02014-1) Images



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.



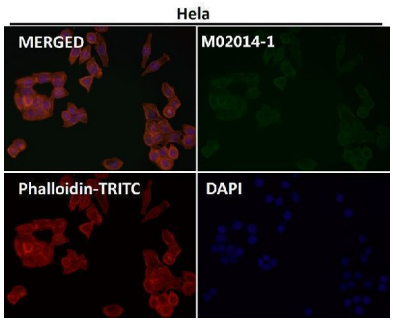
Immunohistochemical analysis of paraffin-embedded mouse heart, using Actin Antibody.

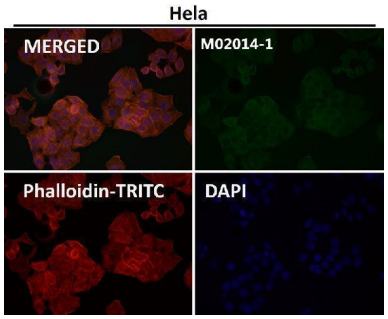


Immunofluorescent analysis of Hela cells, using Actin Antibody.

Immunofluorescent analysis using the Antibody at 1:50 dilution.

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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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