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Anti-Alpha-actin-1 Antibody

Catalog # AP61565

Product Information

Application	WB, IHC, IP, IF/IC
Primary Accession	P68133
Reactivity	Human, Mouse, Rat
Host	Mouse
Clonality	Monoclonal
Calculated MW	42051

Additional Information

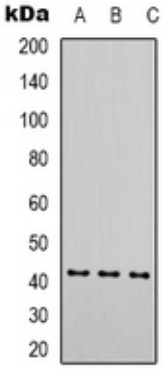
Gene ID	58
Other Names	ACTA; Actin alpha skeletal muscle; Alpha-actin-1
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence of human Alpha-actin-1. The exact sequence is proprietary.
Dilution	WB~~WB (1/5000 - 1/10000), IHC (1/200 - 1/500), IP (1/100 - 1/200) IHC~~WB (1/5000 - 1/10000), IHC (1/200 - 1/500), IP (1/100 - 1/200) IP~~WB (1/5000 - 1/10000), IHC (1/200 - 1/500), IP (1/100 - 1/200) IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

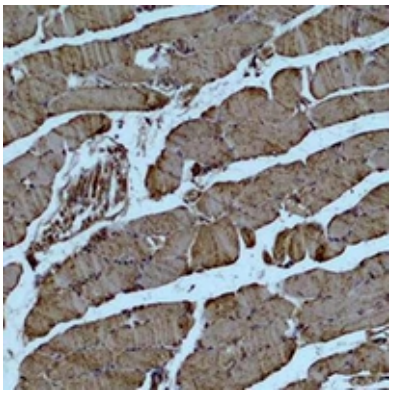
Name	ACTA1
Synonyms	ACTA
Function	Actins are highly conserved proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells.
Cellular Location	Cytoplasm, cytoskeleton.

Images

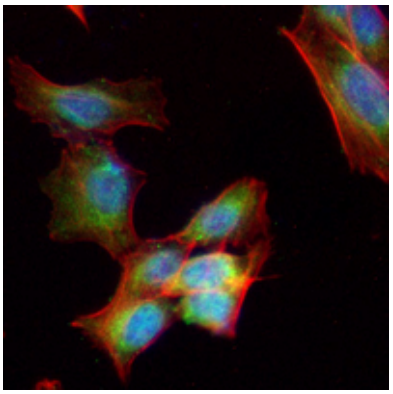
Western blot analysis of Alpha-actin-1 expression in Hela (A), mouse brain (B), rat brain (C) whole cell lysates.



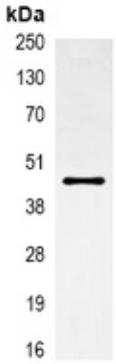
(Predicted band size: 42 kD; Observed band size: 42 kD)



Immunohistochemical analysis of Alpha-actin-1 staining in mouse skeletal muscle formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

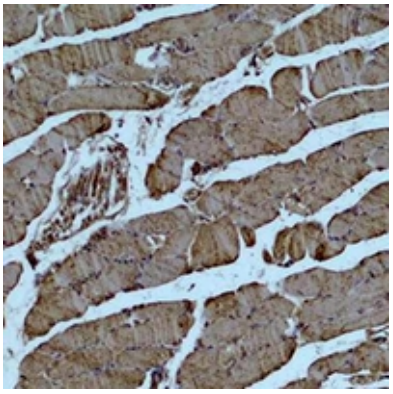


Immunofluorescent analysis of Alpha-actin-1 staining in HEK293 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with an AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).



Immunoprecipitation of Alpha-actin-1 from 0.5mg mouse brain whole cell extract lysate, using Anti-Alpha-actin-1 Antibody.

Immunohistochemical analysis of Alpha-actin-1 staining in mouse skeletal muscle formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



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