Datasheet for ABIN2855589

anti-ACTN1 antibody

3 Images

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Overview

Quantity:	100 µL
Target:	ACTN1
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ACTN1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Whole Mount) (IHC (wm))

Product Details

Immunogen:	Recombinant protein encompassing a sequence within the center region of human alpha Actinin 1. The exact sequence is proprietary.
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat, Zebrafish (Danio rerio)
Characteristics:	Rabbit Polyclonal antibody to alpha Actinin 1 (actinin, alpha 1) alpha Actinin 1 antibody [N2N3]
Purification:	Purified by antigen-affinity chromatography.

Target Details

Target:	ACTN1
Alternative Name:	actinin alpha 1 (ACTN1 Products)

Target Details

Background:	Alpha actinins belong to the spectrin gene superfamily which represents a diverse group of cytoskeletal proteins, including the alpha and beta spectrins and dystrophins. Alpha actinin is an actin-binding protein with multiple roles in different cell types. In nonmuscle cells, the cytoskeletal isoform is found along microfilament bundles and adherens-type junctions, where it is involved in binding actin to the membrane. In contrast, skeletal, cardiac, and smooth muscle isoforms are localized to the Z-disc and analogous dense bodies, where they help anchor the myofibrillar actin filaments. This gene encodes a nonmuscle, cytoskeletal, alpha actinin isoform and maps to the same site as the structurally similar erythroid beta spectrin gene. Three transcript variants encoding different isoforms have been found for this gene. Cellular Localization: Cytoplasm , cytoskeleton , myofibril , sarcomere , Z-disk
Molecular Weight:	103 kDa
Gene ID:	87
UniProt:	P12814
Pathways:	Cell-Cell Junction Organization

Application Details

Application Notes:	WB: 1:500-1:3000. IHC-P: 1:100-1:1000. Optimal dilutions/concentrations should be determined by the researcher. Not tested in other applications.
Comment:	Positive Control: NIH-3T3 , 293T , A431 , HeLa , HepG2 , PC-12 , Rat2 , rat brain
Restrictions:	For Research Use only

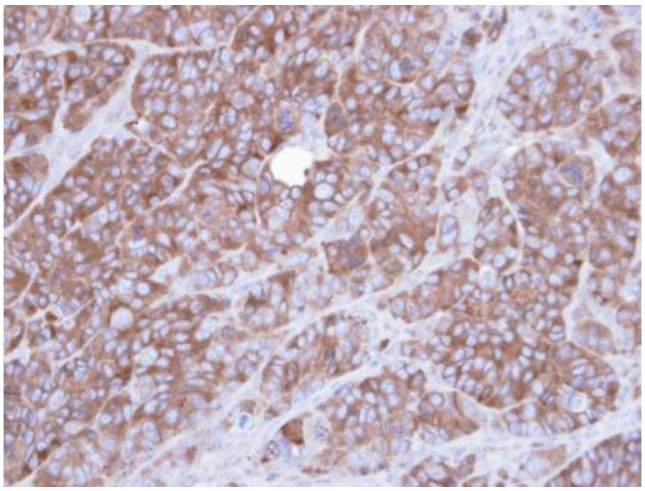
Handling

Format:	Liquid
Concentration:	0.09 mg/mL
Buffer:	0.1M Tris-Glycine (pH 7), 10 % Glycerol, 0.01 % Thimerosal
Preservative:	Thimerosal (Merthiolate)
Precaution of Use:	This product contains Thimerosal (Merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage

Handling

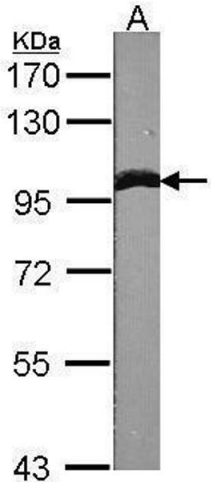
(1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

Images



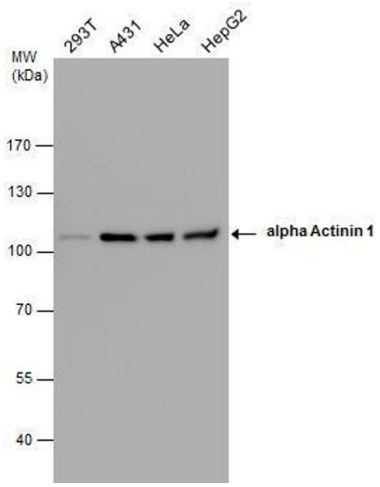
Immunohistochemistry

Image 1. IHC-P Image Immunohistochemical analysis of paraffin-embedded SW480 xenograft , using Alpha-actinin 1, antibody at 1:100 dilution.



Western Blotting

Image 2. WB Image Sample (30 ug of whole cell lysate) A:NIH-3T3 7.5% SDS PAGE antibody diluted at 1:1000



Western Blotting

Image 3. WB Image alpha Actinin 1 antibody detects alpha Actinin 1 protein by western blot analysis. Various whole cell extracts (30 µg) were separated by 7.5% SDS-PAGE, and the membrane was blotted with alpha Actinin 1 antibody , diluted at a dilution of 1:1000.