

Datasheet for ABIN7265399
anti-alpha Actinin 4 antibody

5 Images



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Overview

Quantity:	100 µL
Target:	alpha Actinin 4 (ACTN4)
Reactivity:	Human
Host:	Rabbit
Clonality:	Monoclonal
Conjugate:	This alpha Actinin 4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunoprecipitation (IP), Immunofluorescence (IF)

Product Details

Purpose:	α-Actinin-4 Rabbit mAb
Immunogen:	A synthesized peptide derived from human alpha-Actinin-4
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Monoclonal Antibodies
Purification:	Affinity purification

Target Details

Target:	alpha Actinin 4 (ACTN4)
Alternative Name:	ACTN4 (ACTN4 Products)
Background:	Alpha actinins belong to the spectrin gene superfamily which represents a diverse group of

Target Details

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, alpha actinin isoform which is concentrated in the cytoplasm, and thought to be involved in metastatic processes. Mutations in this gene have been associated with focal and segmental glomerulosclerosis. [provided by RefSeq, Jul 2008],ACTININ-4, FSGS, FSGS1,Cancer,Cell Adhesion,Cell Biology & Developmental Biology,Cytoskeleton,Cytoskeleton_Microfilaments,Endocrine & Metabolism,Epigenetics & Nuclear Signaling,Extracellular Matrix,Immunology & Inflammation,Invasion and Metastasis,RNA Binding,Signal Transduction,T Cell Receptor Signaling Pathway,ACTN4

Molecular Weight: 105kDa

Gene ID: 81

UniProt: [O43707](#)

Pathways: [Proton Transport](#)

Application Details

Application Notes: WB,1:500 - 1:2000,IF,1:50 - 1:200,IP,1:50 - 1:200

Restrictions: For Research Use only

Handling

Format: Liquid

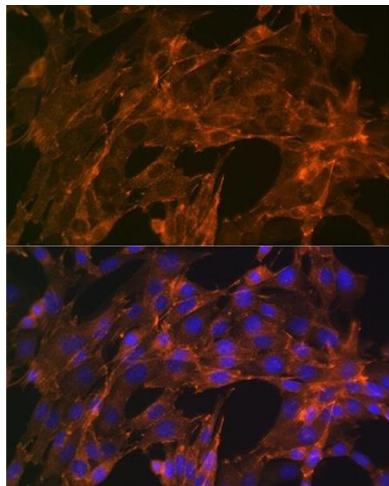
Buffer: PBS with 0.02 % sodium azide,0.05 % BSA,50 % glycerol, pH 7.3.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

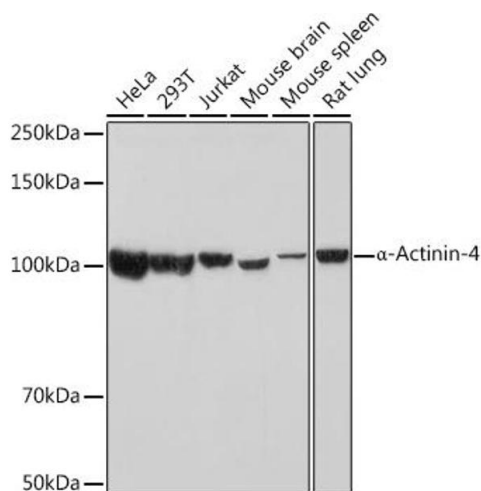
Storage: -20 °C

Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.



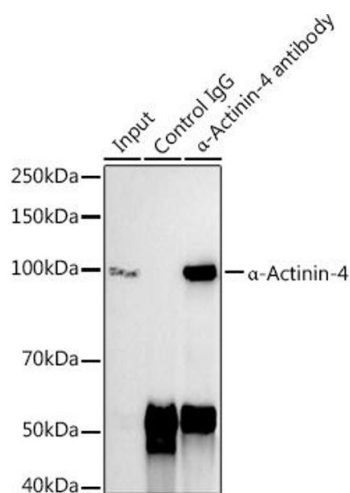
Immunofluorescence

Image 1. Immunofluorescence analysis of NIH-3T3 cells using α -Actinin-4 Rabbit mAb (ABIN7265399) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.



Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using α -Actinin-4 Rabbit mAb (ABIN7265399) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 μ g per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 30s.



Immunoprecipitation

Image 3. Immunoprecipitation analysis of 300 μ g extracts of 293T cells using 3 μ g α -Actinin-4 antibody (ABIN7265399). Western blot was performed from the immunoprecipitate using α -Actinin-4 antibody (ABIN7265399) at a dilution of 1:1000.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN7265399.