

Datasheet for ABIN7265400
anti-alpha Actinin 4 antibody (AA 570-650)



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1 Image

Overview

Quantity:	100 µL
Target:	alpha Actinin 4 (ACTN4)
Binding Specificity:	AA 570-650
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This alpha Actinin 4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Purpose:	α-Actinin-4 Rabbit pAb
Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 570-650 of human alpha-Actinin-4 (NP_004915.2).
Sequence:	HDQFKSTLPD ADREREAILA IHKEAQRIAE SNHIKLSGSN PYTTVTPQII NSKWEKVQQL VPKRDHALLE EQSKQSQSNEH L
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

Target Details

Target:	alpha Actinin 4 (ACTN4)
Alternative Name:	ACTN4 (ACTN4 Products)
Background:	<p>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, 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.,ACTN4,ACTININ-4,FSGS,FSGS1,Epigenetics & Nuclear Signaling,RNA Binding,Cancer,Invasion and Metastasis,Signal Transduction,Cell Biology & Developmental Biology,Cell Adhesion,Cytoskeleton,Microfilaments,Extracellular Matrix,Endocrine & Metabolism,Immunology & Inflammation,T Cell Receptor Signaling Pathway,ACTN4</p>
Molecular Weight:	59kDa/79kDa/104kDa
Gene ID:	81
UniProt:	O43707
Pathways:	Proton Transport

Application Details

Application Notes:	WB,1:500 - 1:2000,IF,1:50 - 1:100
Restrictions:	For Research Use only

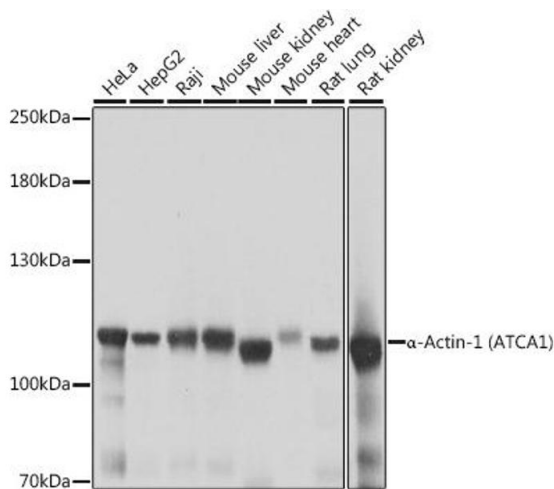
Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,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

Handling

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

Images



Western Blotting

Image 1. Western blot analysis of extracts of various cell lines, using α-Actinin-4 antibody (ABIN7265400) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 1 s.