

Product datasheet

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ARG55162 anti-alpha Actinin 4 antibody

Package: 100 μl Store at: -20°C

Summary

Product Description Rabbit Polyclonal antibody recognizes alpha Actinin 4

Tested Reactivity Hu

Predict Reactivity Ms, Rat, Bov, Chk

Tested Application WB

Host Rabbit

Clonality Polyclonal

Isotype IgG

Target Name alpha Actinin 4

Species Human

Immunogen KLH-conjugated synthetic peptide corresponding to aa. 192-220 (N-terminus) of Human alpha Actinin 4.

Conjugation Un-conjugated

Alternate Names FSGS1; ACTININ-4; FSGS; Non-muscle alpha-actinin 4; Alpha-actinin-4

Application Instructions

Application table	Application	Dilution
	WB	1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	HeLa	

Properties

Form Liquid

Purification Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Buffer PBS and 0.09% (W/V) Sodium azide

Preservative 0.09% (W/V) Sodium azide

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links GenelD: 81 Human

Swiss-port # O43707 Human

Gene Symbol ACTN4

Gene Full Name actinin, alpha 4

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, 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

metastatic processes. Mutations in this gene have been associated with focal and segments

glomerulosclerosis. [provided by RefSeq, Jul 2008]

Function F-actin cross-linking protein which is thought to anchor actin to a variety of intracellular structures. This

is a bundling protein (Probable). Probably involved in vesicular trafficking via its association with the CART complex. The CART complex is necessary for efficient transferrin receptor recycling but not for EGFR degradation (PubMed:15772161). Involved in tight junction assembly in epithelial cells probably through interaction with MICALL2. Links MICALL2 to the actin cytoskeleton and recruits it to the tight junctions (By similarity). May also function as a transcriptional coactivator, stimulating transcription mediated by the nuclear hormone receptors PPARG and RARA (PubMed:22351778). [UniProt]

Research Area Cancer antibody; Metabolism antibody; Signaling Transduction antibody

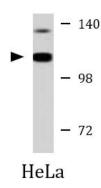
Calculated Mw 105 kDa

Cellular Localization Nucleus. Cytoplasm. Cell junction {ECO:0000250|UniProtKB:P57780}. Note=Localized in cytoplasmic

mRNP granules containing untranslated mRNAs Colocalizes with actin stress fibers. Nuclear translocation can be induced by the PI3 kinase inhibitor wortmannin or by cytochalasin D. Exclusively localized in the nucleus in a limited number of cell lines (breast cancer cell line MCF-7, oral floor cancer

IMC- 2, and bladder cancer KU-7).

Images



ARG55162 anti-alpha Actinin 4 antibody WB image

Western blot: 35 μg of HeLa cell lysate stained with ARG55162 antialpha Actinin 4 antibody.