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KO Validated Anti-Actinin Alpha 4 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI2407

Product Information

Application	WB, FC
Primary Accession	O43707
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	25GB535
Calculated MW	104854
Gene Name	ACTN4
Aliases	ACTN4; Actinin Alpha 4; Focal Segmental Glomerulosclerosis 1; Non-Muscle Alpha-Actinin 4; Alpha-Actinin-4; FSGS1; ACTININ-4; FSGS
Immunogen	A synthesized peptide derived from human alpha Actinin 4

Additional Information

Gene ID	81
Other Names	Alpha-actinin-4, Non-muscle alpha-actinin 4, ACTN4 (HGNC:166)

Protein Information

Name	ACTN4 (HGNC:166)
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). Association with IGSF8 regulates the immune synapse formation and is required for efficient T-cell activation (PubMed:22689882).
Cellular Location	Nucleus. Cytoplasm. Cell junction {ECO:0000250|UniProtKB:P57780}. Cytoplasm, cytoskeleton, stress fiber. Cytoplasm, perinuclear region {ECO:0000250|UniProtKB:P57780}. Note=Localized in cytoplasmic mRNP granules containing untranslated mRNAs. Expressed in the perinuclear rim and manchette structure in early elongating spermatids during spermiogenesis (By similarity). 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). {ECO:0000250|UniProtKB:P57780, ECO:0000269|PubMed:17289661, ECO:0000269|PubMed:9508771}

Tissue Location Widely expressed..

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