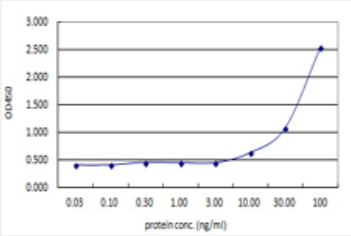
ACTN4 (Human) Matched Antibody Pair

Catalog # H00000081-AP45 Size 1 Set

Applications



Sandwich ELISA detection sensitivity ranging from 10 ng/ml to 100 ng/ml.

Specification

Product Description	This antibody pair set comes with a matched antibody pair to detect and quantify the protein level of human ACTN4.
Reactivity	Human
Interspecies Antigen Sequence	Mouse (98%); Rat (98%)
Quality Control Testing	Standard curve using recombinant protein (H00000081-P01) as an analyte. Sandwich ELISA detection sensitivity ranging from 10 ng/ml to 100 ng/ml.
Supplied Products	Antibody pair set content: 1. Capture antibody: mouse monoclonal anti-ACTN4, IgG1 Kappa (100 ug) 2. Detection antibody: biotinylated mouse monoclonal anti-ACTN4, IgG2b Kappa (50 ug) *Reagents are sufficient for at least 3-5 x 96 well plates using recommended protocols.
Storage Instruction	Store reagents of the antibody pair set at -20°C or lower. Please aliquot to avoid repeated freeze tha w cycle. Reagents should be returned to -20°C storage immediately after use.

Applications

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- ELISA Pair (Recombinant protein)

  Protocol Download

Gene Info — ACTN4

Entrez GeneID	81
Gene Name	ACTN4
Gene Alias	ACTININ-4, DKFZp686K23158, FSGS, FSGS1
Gene Description	actinin, alpha 4
Omim ID	603278 604638
Gene Ontology	Hyperlink
Gene Summary	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. [provided by RefSeq
Other Designations	actinin alpha4 isoform

Pathway

- Adherens junction
- Arrhythmogenic right ventricular cardiomyopathy (ARVC)
- Focal adhesion
- Leukocyte transendothelial migration
- Regulation of actin cytoskeleton
- Systemic lupus erythematosus
- Tight junction

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Disease

- Alport syndrome
- Cardiovascular Diseases
- Diabetes Mellitus
- Diabetic Nephropathies
- Edema
- Genetic Predisposition to Disease
- Glomerulosclerosis
- Kidney Diseases
- Proteinuria

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