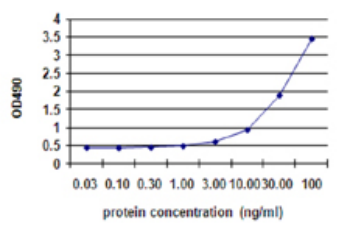
# ACTN4 (Human) Matched Antibody Pair

Catalog # H00000081-AP41 Size 1 Set

## Applications




Sandwich ELISA detection sensitivity ranging from 1 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-Q01 ) as an analyte.<br>Sandwich ELISA detection sensitivity ranging from 1 ng/ml to 100 ng/ml. |
| **Supplied Products** | Antibody pair set content:<br>1. Capture antibody: mouse monoclonal anti-ACTN4, IgG2a (100 ug)<br>2. Detection antibody: biotinylated mouse monoclonal anti-ACTN4, IgG2a Kappa (50 ug)<br>*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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