

# ACTN4 polyclonal antibody (A01)

Catalog # H00000081-A01

Size 50 uL

## Specification

|                                      |                                                                                                                     |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| <b>Product Description</b>           | Mouse polyclonal antibody raised against a partial recombinant ACTN4.                                               |
| <b>Immunogen</b>                     | ACTN4 (NP_004915, 592 a.a. ~ 701 a.a) partial recombinant protein with GST tag.                                     |
| <b>Sequence</b>                      | KEAQRIAESNHIKLSGSNPYTTVTPQIINSKWEKVQQLVPKRDHALLEEQSKQQSNEHLRRQFASQ<br>ANVVGWPWIQTKMEEIGRISIEMNGTLEDQLSHLKQYERSIVDYK |
| <b>Host</b>                          | Mouse                                                                                                               |
| <b>Reactivity</b>                    | Human                                                                                                               |
| <b>Interspecies Antigen Sequence</b> | Mouse (99); Rat (98)                                                                                                |
| <b>Quality Control Testing</b>       | Antibody Reactive Against Recombinant Protein.                                                                      |
| <b>Storage Buffer</b>                | 50 % glycerol                                                                                                       |
| <b>Storage Instruction</b>           | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.                                            |

## Applications

- ELISA

## Gene Info — ACTN4

|                            |                           |
|----------------------------|---------------------------|
| <b>Entrez GeneID</b>       | <a href="#">81</a>        |
| <b>GeneBank Accession#</b> | <a href="#">NM_004924</a> |
| <b>Protein Accession#</b>  | <a href="#">NP_004915</a> |
| <b>Gene Name</b>           | ACTN4                     |

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gene Alias         | ACTININ-4, DKFZp686K23158, FSGS, FSGS1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Gene Description   | actinin, alpha 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Omim ID            | <a href="#">603278 604638</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Gene Ontology      | <a href="#">Hyperlink</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Gene Summary       | <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 is thought to be involved in metastatic processes. Mutations in this gene have been associated with focal and segmental glomerulosclerosis. [provided by RefSeq]</p> |
| 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](#)

## Disease

- [Alport syndrome](#)
- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Diabetic Nephropathies](#)
- [Edema](#)

- [Genetic Predisposition to Disease](#)
- [Glomerulosclerosis](#)
- [Kidney Diseases](#)
- [Proteinuria](#)