

# $\alpha$ -Actinin-4 Rabbit mAb

Catalog No.: A3379

Recombinant

3 Publications

## Basic Information

**Observed MW**

100kDa

**Calculated MW**

105kDa

**Category**

Primary antibody

**Applications**

WB, IF/ICC, IP, ELISA

**Cross-Reactivity**

Human, Mouse, Rat

**CloneNo number**

ARC1959

## 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 glomerulosclerosis.

## Recommended Dilutions

**WB** 1:1000 - 1:4000**IF/ICC** 1:50 - 1:200**IP** 0.5 $\mu$ g-4 $\mu$ g antibody for  
200 $\mu$ g-400 $\mu$ g extracts of  
whole cells**ELISA** Recommended starting  
concentration is 1  $\mu$ g/mL.  
Please optimize the  
concentration based on  
your specific assay  
requirements.

## Contact

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## Immunogen Information

**Gene ID**

81

**Swiss Prot**

O43707

**Immunogen**

Synthetic peptide. This information is considered to be commercially sensitive.

**Synonyms**FSGS; FSGS1; ACTININ-4;  $\alpha$ -Actinin-4

## Product Information

**Source**

Rabbit

**Isotype**

IgG

**Purification**

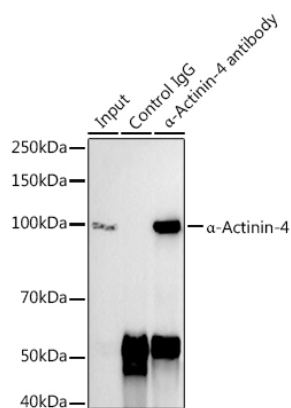
Affinity purification

**Storage**

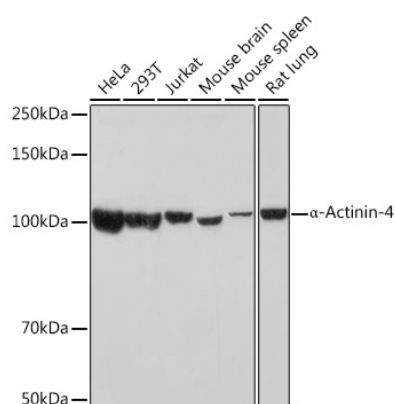
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide, 0.05% BSA, 50% glycerol, pH7.3.

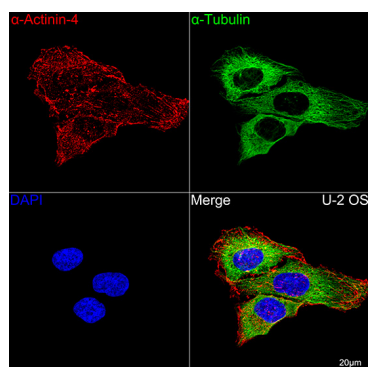
## Validation Data



Immunoprecipitation analysis of 300 µg extracts of 293T cells using 3 µg α-Actinin-4 antibody (A3379). Western blot was performed from the immunoprecipitate using α-Actinin-4 antibody (A3379) at a dilution of 1:1000.



Western blot analysis of various lysates using α-Actinin-4 Rabbit mAb (A3379) at 1:1000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 30s.



Confocal imaging of U-2 OS cells using α-Actinin-4 Rabbit mAb (A3379, dilution 1:100) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.