

A3379

Leader in Biomolecular Solutions for Life Science



α -Actinin-4 Rabbit mAb

Catalog No.: A3379 **Recombinant** **3 Publications**

Basic Information

Observed MW

100kDa

Calculated MW

105kDa

Category

SMab Recombinant Monoclonal 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 1:500 - 1:2000

IF/ICC 1:50 - 1:200

IP 0.5 μ g-4 μ g antibody for
200 μ g-400 μ g extracts of
whole cells

Immunogen Information

Gene ID

81

Swiss Prot

O43707

Immunogen

A synthetic peptide corresponding to a sequence within amino acids 1-100 of human α -Actinin-4 (O43707).

Synonyms

FSGS; FSGS1; ACTININ-4; α -Actinin-4

Contact



www.abclonal.com

Product Information

Source

Rabbit

Isotype

IgG

Purification

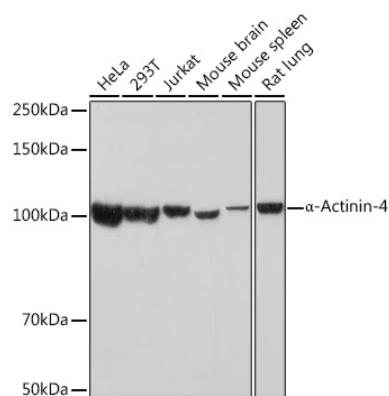
Affinity purification

Storage

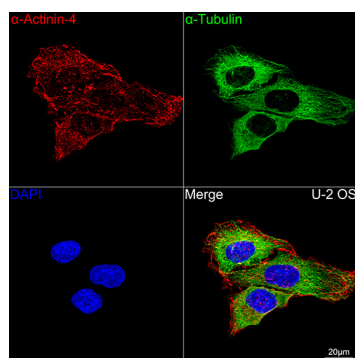
Store at -20°C. Avoid freeze / thaw cycles.

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

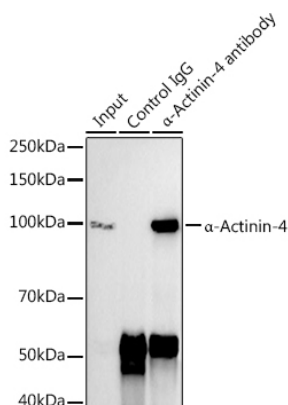
Validation Data



Western blot analysis of various lysates using α -Actinin-4 Rabbit mAb (A3379) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25 μ g 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.



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