abcam

Product datasheet

Recombinant Human alpha Actinin 4 protein ab126006

Description

Product name Recombinant Human alpha Actinin 4 protein

Purity > 70 % SDS-PAGE.

Purified via His tag

Expression system Escherichia coli

Accession <u>O43707</u>

Protein length Protein fragment

Animal free No

Nature Recombinant

Species Human

Predicted molecular weight 29 kDa

Amino acids 397 to 648

Specifications

Our Abpromise guarantee covers the use of ab126006 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications SDS-PAGE

Form Lyophilized

Preparation and Storage

Stability and Storage Shipped at 4°C. Store at -20°C.

Constituents: 0.32% Tris HCI, 0.58% Sodium chloride

Reconstitution Reconstitute with water to desired concentration.

General Info

Function F-actin cross-linking protein which is thought to anchor actin to a variety of intracellular structures.

This is a bundling protein. Probably involved in vesicular trafficking via its association with the

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CART complex. The CART complex is necessary for efficient transferrin receptor recycling but not

for EGFR degradation.

Tissue specificity Widely expressed.

Involvement in disease Defects in ACTN4 are the cause of focal segmental glomerulosclerosis type 1 (FSGS1)

[MIM:603278]. A renal pathology defined by the presence of segmental sclerosis in glomeruli and resulting in proteinuria, reduced glomerular filtration rate and edema. Renal insufficiency often progresses to end-stage renal disease, a highly morbid state requiring either dialysis therapy or

kidney transplantation.

Sequence similarities Belongs to the alpha-actinin family.

Contains 1 actin-binding domain.

Contains 2 CH (calponin-homology) domains.

Contains 2 EF-hand domains. Contains 4 spectrin repeats.

Cellular localizationNucleus. Cytoplasm. Localized in cytoplasmic mRNP granules containing untranslated mRNAs.

Colocalizes with actin stress fibers. Nuclear translocation can be induced by the PI3 kinase inhibitor wortmannin or by cytochalasin D. Exclusively localized in the nucleus in a limited number

of cell lines.

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