Product Name: a-actinin(4A12)Mouse Monoclonal

Antibody

Catalog #: AMM06376



Summary

Production Name a-actinin(4A12)Mouse Monoclonal Antibody

Description Mouse monoclonal Antibody

Host Mouse

Application WB,IHC,ICC/IF **Reactivity** Human,Rat,Mouse

Performance

ConjugationUnconjugatedModificationUnmodified

Isotype IgG

Clonality Monoclonal

Form Liquid

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw $\bf Storage$

cycles.

Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type

preservative N.

Purification Affinity purification

Immunogen

Gene Name ACTN1
Alternative Names ACTN1
Gene ID 87.0

SwissProt ID P12814.Recombinant Protein of a-actinin of ACTN1

Application

Dilution Ratio WB 1:500-1:2000,IHC 1:100-1:500,ICC/IF 1:100-1:500

Molecular Weight 103kDa

Web: https://www.enkilife.com E-mail: order@enkilife.com techsupport@enkilife.com Tel: 0086-27-87002838

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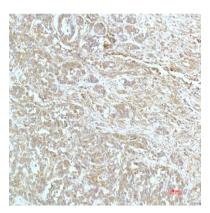
Background

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, cytoskeletal, alpha actinin isoform and maps to the same site as the structurally similar erythroid beta spectrin gene. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008],function:F-actin cross-linking protein which is thought to anchor actin to a variety of intracellular structures. This is a bundling protein.,similarity:Belongs to the alpha-actinin family.,similarity:Contains 1 actin-binding domain.,similarity:Contains 2 CH (calponin-homology) domains.,similarity:Contains 2 EF-hand domains.,similarity:Contains 4 spectrin repeats.,subcellular location:Colocalizes with MYOZ2 and PPP3CA at the Z-line of heart and skeletal muscle.,subunit:Homodimer; antiparallel. Interacts with DDN, MYOZ2, PDLIM2, TTID and LPP.,

Research Area

Focal adhesion; Adherens_Junction; Adherens_Junction; Leukocyte transendothelial migration; Regulates Actin and Cytoskeleton; Systemic lupus erythematosus; Arrhythmogenic right ventricular cardiomyopathy (ARVC);

Image Data



Immunohistochemical analysis of paraffin-embedded Human Breast Carrcinoma Tissue using a-actinin Mouse mAb diluted at 1:200.

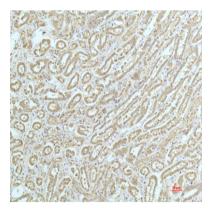
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Immunohistochemical analysis of paraffin-embedded Human Kidney Tissue using a-actinin Mouse mAb diluted at 1:200.

Note

For research use only.

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