

ACTN1 Polyclonal Antibody

Catalog Number: E-AB-60220

Note: Centrifuge before opening to ensure complete recovery of vial contents.

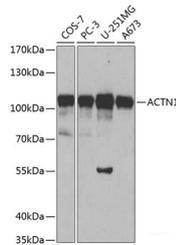
Description

Reactivity	Human, Mouse
Immunogen	Recombinant fusion protein of human ACTN1 (NP_001123477.1).
Host	Rabbit
Isotype	IgG
Purification	Affinity purification
Conjugation	Unconjugated
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Applications Recommended Dilution

WB	1:500-1:2000
IHC	1:50-1:200

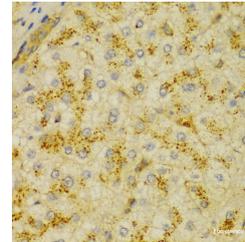
Data



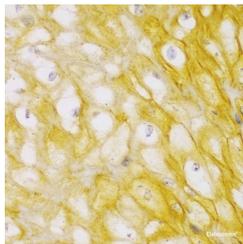
Western blot analysis of extracts of various cell lines using ACTN1 Polyclonal Antibody at dilution of 1:500.

Observed Mw: 105kDa

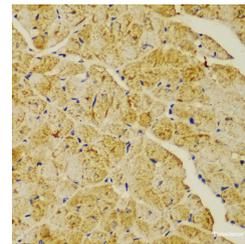
Calculated Mw: 102kDa/103kDa/105kDa/107kDa



Immunohistochemistry of paraffin-embedded Human liver cancer using ACTN1 Polyclonal Antibody at dilution of 1:100 (40x lens).



Immunohistochemistry of paraffin-embedded Human esophagus using ACTN1 Polyclonal Antibody at dilution of 1:100 (40x lens).



Immunohistochemistry of paraffin-embedded Mouse heart using ACTN1 Polyclonal Antibody at dilution of 1:100 (40x lens).

Preparation & Storage

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

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

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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.

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