

ACTN1

Reactivity: Human Mouse Rat

Tested applications: WB IHC

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

Calculated MW: 103kDa

Observed MW: Refer to Figures

Immunogen:

Recombinant protein of human ACTN1

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Concentration:

b

Synonym:

ACTN1;FLJ40884;FLJ54432 ;

Catalog #: A1160

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID: 87

Isotype: IgG

Swiss Prot: P12814

Purity: Affinity purification

For research use only.

Background:

-Actinin belongs to the spectrin family of cytoskeletal proteins. It was first recognized as an actin cross-linking protein, forming an antiparallel homodimer with an actin binding head at the amino terminus of each monomer. More recently, -actinin has been shown to interact with a large number of proteins involved in signaling to the cytoskeleton including those involved in cellular adhesion, migration, and immune cell targeting (1). The interaction of -actinin with intercellular adhesion molecule-5 (ICAM-5) helps to promote neurite outgrowth (2). In osteoblasts, interaction of -actinin with integrins stabilizes focal adhesions and may protect cells from apoptosis (3). Isoforms 1 and 4 of -actinin, which are non-muscle isoforms, are present in stress fibers, sites of adhesion and intercellular contacts, filopodia, and lamellipodia. The muscle isoforms 2 and 3 localize to the Z-discs of striated muscle and to dense bodies and plaques in smooth muscle (1).

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