

## 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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