ACTN1 Polyclonal Antibody

E91160

Catalog Number: E91160
Amount: 100ul
Background: α-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, α-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 α-actinin with intercellular adhesion molecule-5 (ICAM-5) helps to promote neurite outgrowth (2). In osteoblasts, interaction of α-actinin with integrins stabilizes focal adhesions and may protect cells from apoptosis (3). Isoforms 1 and 4 of α-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).
Species: Rabbit
Isotype: IgG
Storage/Stability: Store at -20oC or -80oC. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Synonyms: ACTN1;FLJ40884;FLJ54432 ;
Immunogen: Recombinant proteinof human ACTN1
Purification: Affinity purification
Reactivity: H M R
Applications: WB IHC
Molecular Weight: 103kDa
Swiss-Prot No. : P12814
Gene ID: 87
References: 1. Otey, C.A. and Carpen, O. (2004) Cell Motil. Cytoskeleton 58, 104-111. 2. Nyman-Huttunen, H. et al. (2006) J. Cell Sci. 119, 3057-3066. 3. Triplett, J.W. and Pavalko, F.M. (2006) Am. J. Physiol. Cell Physiol. 291, C909-921.

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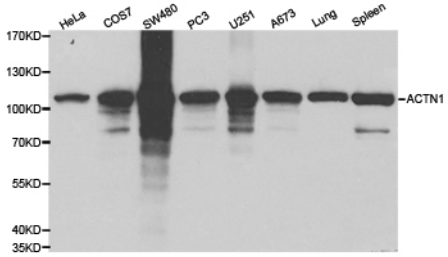
WB 1:500 - 1:2000

IHC 1:50- 1:200



Western blot analysis of extracts of various cell linesusing ACTN1 antibody.

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