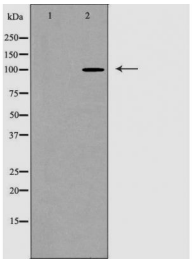
ACTN1 Antibody

#24152

Catalog Number: 24152-1, 24152-2
Amount: 50μg/50μl, 100μg/100μl
Swiss-Prot No. :P12814
Form of Antibody: Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl,0.02% sodium azide and 50% glycerol.
Storage/Stability: Store at -20℃/1 year
Immunogen: The antiserum was produced against synthesized peptide derived from Human ACTN1
Purification: The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Specificity/Sensitivity: ACTN1 antibody detects endogenous levels of total ACTN1 protein
Reactivity: Human,Mouse,Rat
Applications:
Predicted MW: 103kd WB:1:500~1:2000 IHC:1:50-200



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

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 . The interaction of α-actinin with intercellular adhesion molecule-5 (ICAM-5) helps to promote neurite outgrowth . In osteoblasts, interaction of α-actinin with integrins stabilizes focal adhesions and may protect cells from apoptosis . 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 .