

## alpha-Actinin Ab

[Images\(1\)](#)

Cat.#: DF6294                      Concn.: ~1mg/ml                      Mol.Wt.: 103kDa  
Size:                                      Source: Rabbit                              Clonality: Polyclonal

Application:                      WB 1:500-1:2000, IHC 1:50-1:200, IF/ICC 1:100-1:500  
\*The optimal dilutions should be determined by the end user.

Reactivity:                              Human,Mouse,Rat

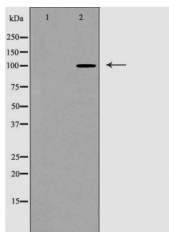
Storage:                                      Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at -20 °C. Stable for 12 months from date of receipt.

Purification:                              The antiserum was purified by peptide affinity chromatography using SulfoLink™ Coupling Resin (Thermo Fisher Scientific).

Immunogen:                              A synthesized peptide derived from human alpha-Actinin, corresponding to a region within N-terminal amino acids.

Uniprot:                                      P12814

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



Western blot analysis of HeLa whole cell lysates, using ACTN1 Ab. The lane on the left was treated with the antigen-specific peptide.

**IMPORTANT:** For western blot, incubate membrane with diluted primary Ab in 5% w/v milk , 1X TBS, 0.1% Tween@20 at 4°C with gentle shaking, overnight.

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