



## Actinin-α2/3 rabbit pAb

Cat#: orb764469 (Manual)

For research use only. Not intended for diagnostic use.

**Product Name** Actinin-α2/3 rabbit pAb

**Host species** Rabbit

**Applications** WB;IHC;IF;ELISA

**Species Cross-Reactivity** Human; Mouse; Rat

**Recommended dilutions** Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300.

Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in

other applications.

**Immunogen** The antiserum was produced against synthesized peptide derived from

human Actinin alpha-2/3. AA range:31-80

Actinin-α2/3 Polyclonal Antibody detects endogenous levels of Actinin-α2/3 **Specificity** 

protein.

**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium

azide..

Store at -20°C. Avoid repeated freeze-thaw cycles. **Storage** 

**Protein Name** Alpha-actinin-2/3

Gene Name ACTN2/ACTN3

Cytoplasm, myofibril, sarcomere, Z line . Colocalizes with MYOZ1 and FLNC at the Z-lines of skeletal muscle. Cellular localization

**Purification** The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Polyclonal **Clonality** 





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1 mg/ml Concentration

**Observed band** 103kD

**Human Gene ID** 88/89

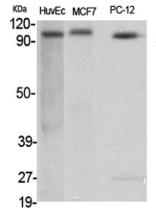
**Human Swiss-Prot Number** P35609/Q08043

ACTN2; Alpha-actinin-2; Alpha-actinin skeletal muscle isoform 2; F-actin cross-linking protein; ACTN3; Alpha-actinin-3; Alpha-actinin skeletal **Alternative Names** 

muscle isoform 3; F-actin cross-linking protein

**Background** 

Alpha actinins belong to the spectrin gene superfamily which represents a diverse group of cytoskeletal proteins, including the alpha and beta spectrins and dystrophins. Alpha actinin is an actin-binding protein with multiple roles in different cell types. In nonmuscle cells, the cytoskeletal isoform is found along microfilament bundles and adherens-type junctions, where it is involved in binding actin to the membrane. In contrast, skeletal, cardiac, and smooth muscle isoforms are localized to the Z-disc and analogous dense bodies, where they help anchor the myofibrillar actin filaments. This gene encodes a muscle-specific, alpha actinin isoform that is expressed in both skeletal and cardiac muscles. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2013],



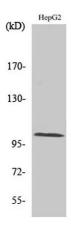
Actinin-a2/3

Western Blot analysis of various cells using Actinin-α2/3 Polyclonal Antibody





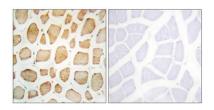
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Western Blot analysis of HuvEc cells using Actinin-a2/3 Polyclonal Antibody



Immunofluorescence analysis of HeLa cells, using Actinin alpha-2/3 Antibody. The picture on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human skeletal muscle tissue, using Actinin alpha-2/3 Antibody. The picture on the right is blocked with the synthesized peptide.