

Product Datasheet

Recombinant ACTN2 Antibody / Alpha Actinin 2 / Sarcomeric Alpha Actinin (orb2635733)

Catalog Number	orb2635733
Category	Antibodies
Description	<p>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 non-muscle 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.</p>
Clonality	Recombinant
Species/Host	Rabbit
Isotype	Rabbit IgG1, kappa
Conjugation	Unconjugated
Reactivity	Human
Purification	Protein A/G affinity
Immunogen	A portion of amino acids 557-692 from the human protein was used as the immunogen for the recombinant ACTN2 antibody.
UniProt ID	P35609

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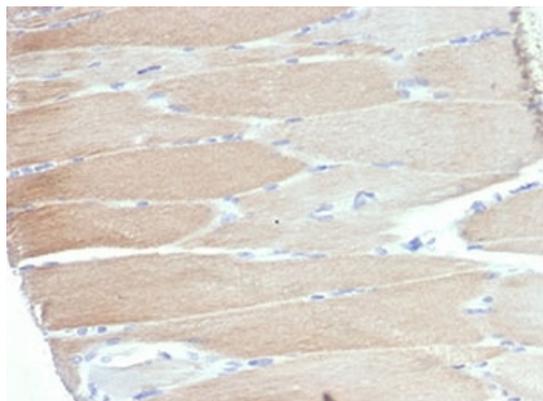
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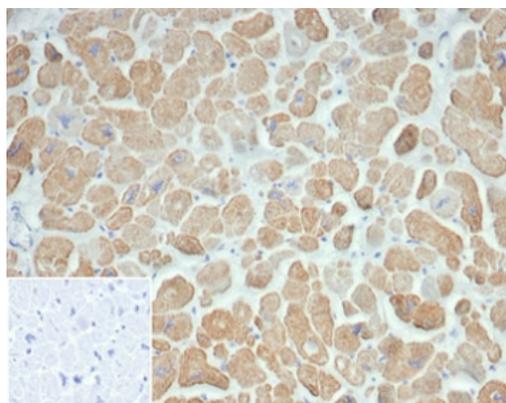
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Tested applications	IHC-P
Dilution range	Immunohistochemistry (FFPE): 1-2ug/ml
Application notes	Optimal dilution of the recombinant ACTN2 antibody should be determined by the researcher.
Antibody Type	Primary Antibody
Clone Number	ACTN2/7039R
Formula	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Note	For research use only



IHC staining of FFPE human skeletal muscle tissue with recombinant recombinant ACTN2 antibody (clone ACTN2/7039R). HIER: boil tissue sections in pH9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human heart tissue with recombinant recombinant ACTN2 antibody (clone ACTN2/7039R). Negative control inset: PBS instead of primary antibody to control for secondary binding. HIER: boil tissue sections in pH9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.

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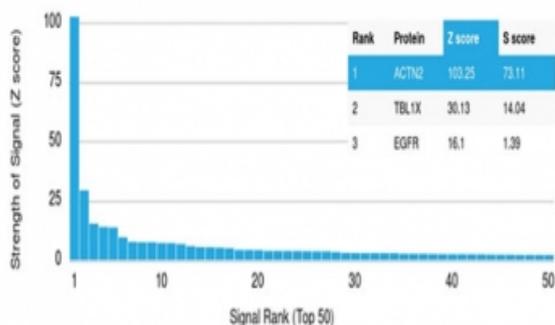
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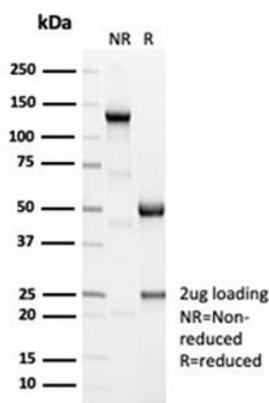
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Human Protein Microarray Specificity Validation



Analysis of HuProt (TM) microarray containing more than 19000 full-length human proteins using recombinant ACTN2 antibody (clone ACTN2/7039R). These results demonstrate the foremost specificity of the ACTN2/7039R mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt (TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt (TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



SDS-PAGE analysis of purified, BSA-free recombinant ACTN2 antibody (clone ACTN2/7039R) as confirmation of integrity and purity.

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