Alpha Actinin 2 Rabbit mAb

Catalog No: #49344

Package Size: #49344-1 50ul #49344-2 100ul

Signalway Antibody
Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

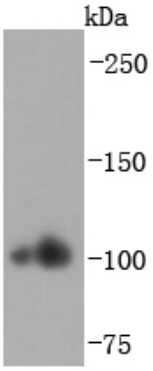
Product Name	Alpha Actinin 2 Rabbit mAb
Clonality	Monoclonal
Clone No.	JF0980
Purification	ProA affinity purified
Applications	WB, IHC, IP
Species Reactivity	Hu, Ms, Rt
Immunogen Description	recombinant protein
Conjugates	Unconjugated
Accession No.	Swiss-Prot#:P35609
Calculated MW	104 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at 4°C

Application Details

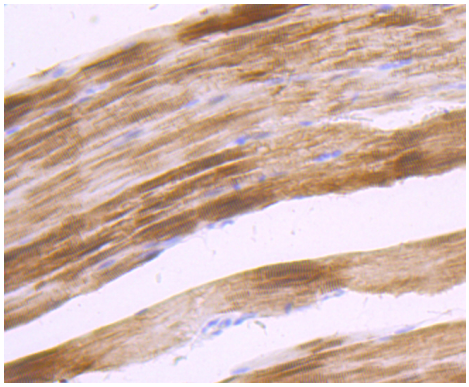
WB: 1:1,000-1:2,000

IHC: 1:50-1:200

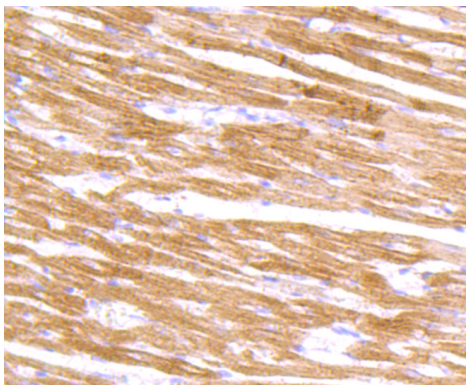
Images



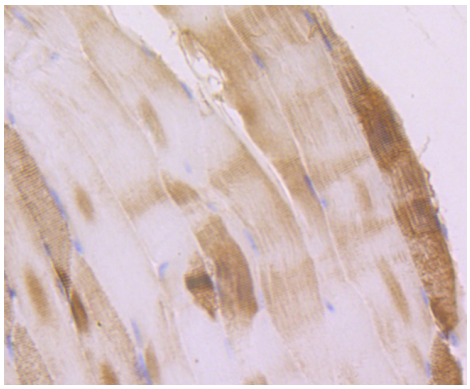
Western blot analysis of ACTN2 on human heart lysates using anti-ACTN2 antibody at 1/1,000 dilution.



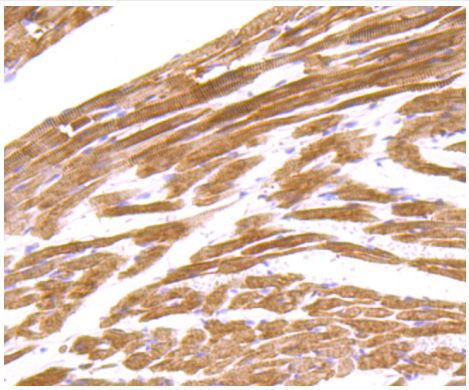
Immunohistochemical analysis of paraffin-embedded rat skeletal muscle tissue using anti-ACTN2 antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded rat heart tissue using anti-ACTN2 antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded mouse skeletal tissue using anti-ACTN2 antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded mouse heart tissue using anti-ACTN2 antibody. Counter stained with hematoxylin.

Background

The spectrin gene family encodes a diverse group of cytoskeletal proteins that include spectrins, dystrophins and α-actinins. There are four tissue-specific α-actinins, namely α-actinin-1, α-actinin-2, α-actinin-3 and α-actinin-4, which are localized to muscle and non-muscle cells, including skeletal, cardiac and smooth muscle cells, as well as within the cytoskeleton. Each α-actinin protein contains one Actin-binding domain, two calponin-homology domains, two EF-hand domains and four spectrin repeats, through which they function as bundling proteins that can cross-link F-Actin, thus anchoring Actin to a variety of intracellular structures. Defects in the gene encoding α-actinin-4 are the cause of focal segmental glomerulosclerosis 1 (FSGS1), a common renal lesion characterized by decreasing kidney function and, ultimately, renal failure.

Note: This product is for in vitro research use only and is not intended for use in humans or animals.