

Mouse alpha-Actinin Monoclonal Antibody | anti-ACTN2 antibody

Anti-alpha-Actinin antibody (monoclonal)

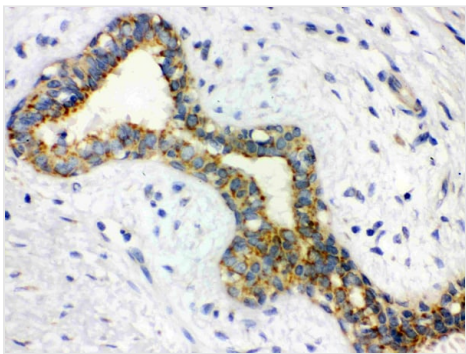
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA44887	Mouse	Human, Mouse, Rat, Rabbit	Immunohistochemistry, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

alpha-Actinin; Monoclonal Antibody; Anti-alpha-Actinin antibody (monoclonal); Alpha-actinin-2; actinin; alpha 2; CMD1AA; Alpha-actinin skeletal muscle isoform 2; F-actin cross-linking protein; anti-ACTN2 antibody

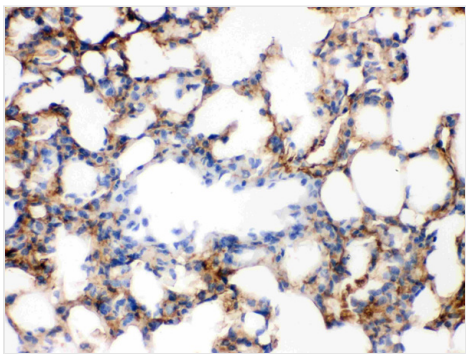
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Mouse, Rat, Rabbit
Clonality	Monoclonal
Isotype	IgG1
Clone Number	SA-20
Purity/Purification	Ascites
Form/Format	Lyophilized
Sequence Length	894
Applicable Applications for anti-ACTN2 antibody	IHC (Immunohistochemistry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	Rabbit skeletal alpha-actinin.
Contents	Mouse ascites fluid, 1.2% sodium acetate, 2mg BSA, with 0.01mg NaN3 as preservative.
Reconstitution	1.2% sodium acetate or neutral PBS. If 1ml of PBS is used, the antibody concentration will be 100ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



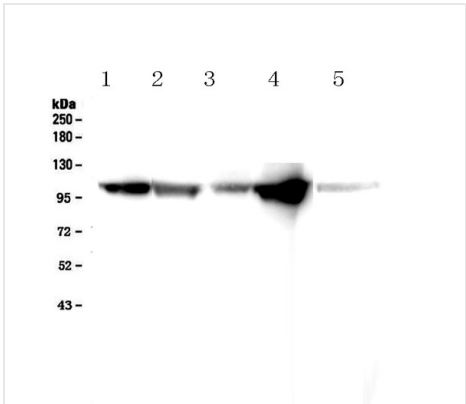
IHC (Immunohistochemistry)

Figure 3. IHC analysis of Alpha-Actinin using anti- Alpha-Actinin antibody (AAA44887).Alpha-Actinin was detected in paraffin-embedded section of human mammary cancer tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1.5ug/ml mouse anti- Alpha-Actinin Antibody (AAA44887) overnight at 4 degree C. Biotinylated goat anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of Alpha-Actinin using anti- Alpha-Actinin antibody (AAA44887).Alpha-Actinin was detected in paraffin-embedded section of mouse lung tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1.5ug/ml mouse anti- Alpha-Actinin Antibody (AAA44887) overnight at 4 degree C. Biotinylated goat anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of Alpha-Actinin using anti- Alpha-Actinin antibody (AAA44887).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: rat cardiac muscle tissue lysates,Lane 2: rat skeletal muscle tissue lysates,Lane 3: mouse cardiac muscle tissue lysates,Lane 4: mouse skeletal muscle tissue lysates,Lane 5: human placenta tissue lysate.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with mouse anti- Alpha-Actinin antigen affinity purified monoclonal antibody at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a Biotin Conjugated goat anti-mouse IgG secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Alpha-Actinin at approximately 103KD. The expected band size for Alpha-Actinin is at 103KD.

ADDITIONAL INFORMATION

Related Product Information for anti- ACTN2 antibody

Description: Mouse IgG monoclonal antibody for alpha-Actinin, actinin, alpha 2 (ACTN2) detection. Tested with WB, IHC-P, IHC-F in Human, mouse, rat. No cross reactivity with other proteins. Uniprot ID: P35609

Background: Alpha-actinin was initially isolated from rabbit skeletal muscle as a factor that induces the gelation of F-actin and promotes the superprecipitation of actomyosin. Alpha actinins are actin-binding proteins that carry out different purposes in different different cell types. In myofibrillar cells, alpha-actinin constitutes a major component of Z-discs in striated muscle and of the functionally analogous dense bodies and dense plaques in smooth muscle. Alpha-actinin(alpha A) shares structural homology with spectrin and dystrophin.

NCBI AND UNIPROT INFORMATION

NCBI GI #	543742
NCBI GeneID	88
UniProt Accession #	P35609; Q86TF4; Q86TI8; B1ANE4; B2RCS5
Molecular Weight	103,920 Da
NCBI Official Full Name	Alpha-actinin-2
NCBI Official Synonym Full Names	actinin, alpha 2
NCBI Official Symbol	ACTN2
NCBI Official Synonym Symbols	CMD1AA
NCBI Protein Information	alpha-actinin-2; F-actin cross-linking protein; alpha-actinin skeletal muscle
UniProt Protein Name	Alpha-actinin-2
UniProt Gene Name	ACTN2
UniProt Entry Name	ACTN2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/monoclonal/alpha-actinin-antibody-clone-sa-20-immunohistochemistry-immunohistochemistry-western-blot-elisa/44887>