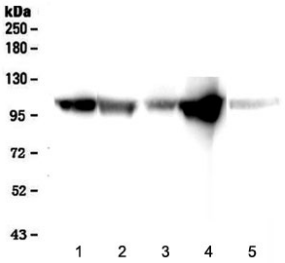
Alpha-Actinin Antibody [clone EA-53] (R30092)

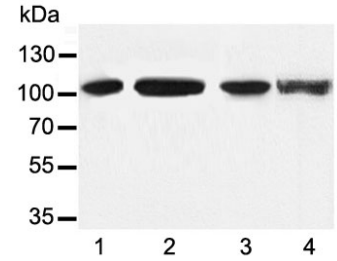
Catalog No.	Formulation	Size
R30092	0.5mg/ml with 1% BSA and 0.01% sodium azide if reconstituted with 0.2ml sterile 1X PBS	100 ug

Bulk quote request

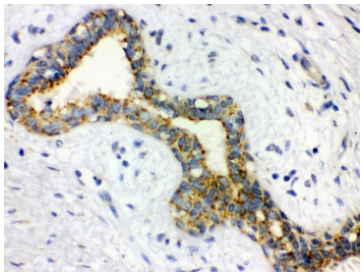
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat, Rabbit
Format	Ascites
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1
Clone Name	EA-53
Purity	Ascites
Gene ID	88
Applications	Western Blot : 0.5-1ug/ml IHC (FFPE) : 1.5-3ug/ml IHC (Frozen) : 1.5-3ug/ml to detect in formalin or acetone fixed tissues
Limitations	This alpha-Actinin antibody is available for research use only.



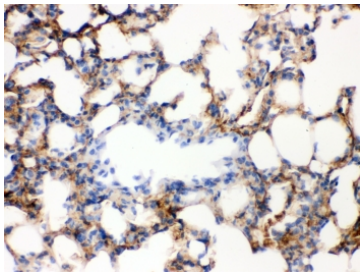
Western blot testing of 1) rat heart, 2) rat skeletal muscle, 3) mouse heart, 4) mouse skeletal muscle and 5) human placenta lysate with alpha-Actinin antibody at 0.5ug/ml. Predicted molecular weight ~105 kDa.



Western blot testing of 1) mouse heart, 2) mouse skeletal muscle, 3) rat heart and 4) rat skeletal muscle lysate with alpha-Actinin antibody at 1ug/ml. Predicted molecular weight ~105 kDa.



IHC testing of FFPE human breast cancer tissue with alpha-Actinin antibody at 1.5ug/ml. Required HIER: boil the sections in 10mM Citrate buffer, pH6, and allow to cool prior to staining.



IHC testing of FFPE mouse lung tissue with alpha-Actinin antibody at 1.5 ug/ml. Required HIER: boil the sections in 10mM Citrate buffer, pH6, and allow to cool prior to staining.

Description

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.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the alpha-Actinin antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Rabbit skeletal alpha-actinin was used as the immunogen for this alpha-Actinin antibody.

Storage

After reconstitution, the alpha-Actinin antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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