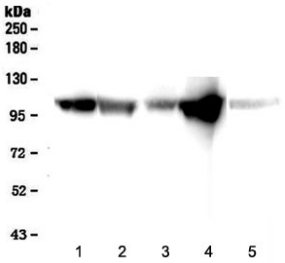
# Alpha-Actinin Antibody [clone EA-53] (R30092)

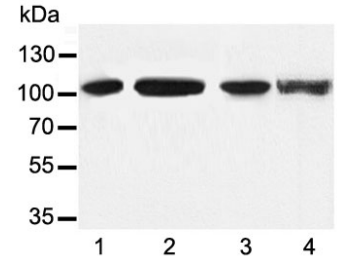
| Catalog No. | Formulation | Size |
|---|---|---|
| R30092 | 0.5mg/ml with 1% BSA and 0.01% sodium azide if reconstituted with 0.2ml sterile 1X PBS | 100 ug |

**Bulk quote request**

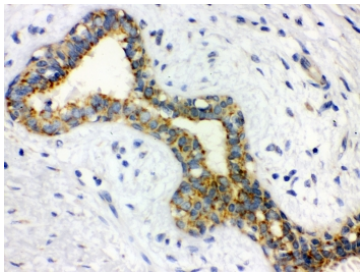
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human, Mouse, Rat, Rabbit |
| **Format** | Ascites |
| **Host** | Mouse |
| **Clonality** | Monoclonal (mouse origin) |
| **Isotype** | Mouse IgG1 |
| **Clone Name** | EA-53 |
| **Purity** | Ascites |
| **Gene ID** | 88 |
| **Applications** | Western blot: 0.5-1ug/ml<br>IHC (FFPE): 1.5-3ug/ml<br>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. |



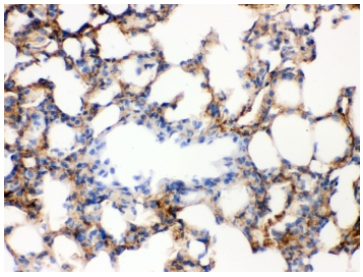

Western blot testing of 1) rat heart, 2) rat skeletal muscle, 3) mouse heart, 4) mouse skeletal muscle and 5) human placenta lysate with alpha-Actinin antibody at 0.5ug/ml. Predicted molecular weight ~105 kDa.




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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