# Recombinant Sarcomeric Actinin Alpha 2 / ACTN2 Antibody

Mouse Monoclonal Antibody [Clone rACTN2/8177]

| Catalog No | Format | Size |
|---|---|---|
| 88-MSM13-P0 | Purified Ab with BSA and Azide at 200ug/ml | 20 ug |
| 88-MSM13-P1 | Purified Ab with BSA and Azide at 200ug/ml | 100 ug |
| 88-MSM13-P1ABX | Purified Ab WITHOUT BSA or Azide at 1.0mg/ml | 100 ug |

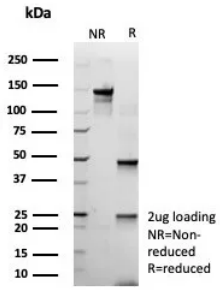
| Applications | Tested Dillution | Note |
|---|---|---|
| Immunohistochemistry (IHC) | 1-2ug/ml | 30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes |
| Western Blot (WB) | 2-4ug/ml | |

## Product Details

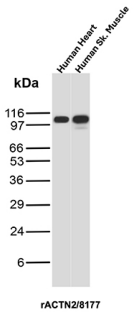
| | |
|---|---|
| **Clone** | rACTN2/8177 |
| **Immunogen** | Recombinant fragment (around aa557-692) of the human Sarcomeric Actinin Alpha 2 protein (exact sequence is proprietary) |
| **Host** | Mouse |
| **Clonality** | Monoclonal |
| **Isotype / Light Chain** | IgG1 / Kappa |
| **Mol. Weight of Antigen** | 103.85kDa |
| **Cellular Localization** | Cytoplasm, Myofibril, Sarcomere, Z line |
| **Species Reactivity** | Human |
| **Positive Control** | Human skeletal or cardiac muscle. |

**Optimal dilution for a specific application should be determined.*

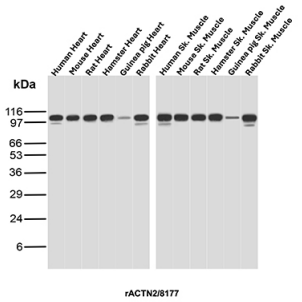
## Product Images for Recombinant Sarcomeric Actinin Alpha 2 / ACTN2 Antibody



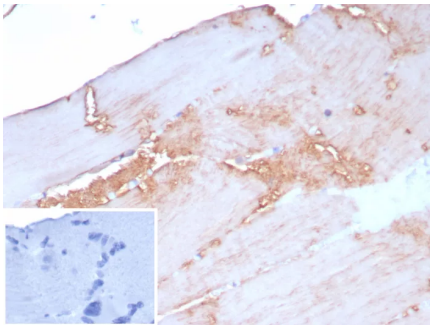

SDS-PAGE Analysis of Purified ACTN2 Recombinant Mouse Monoclonal Antibody (rACTN2/8177). Confirmation of Purity and Integrity of Antibody.




Western blot analysis of Human Heart and Human Skeletal muscle tissue lysates using Sarcomeric Actinin Alpha 2 Recombinant Mouse Monoclonal Antibody (rACTN2/8177).




Western blot analysis of Heart and Skeletal muscle tissue lysates of different species using Sarcomeric Actinin Alpha 2 Recombinant Mouse Monoclonal Antibody (rACTN2/8177).



Formalin-fixed, paraffin-embedded human skeletal muscle stained with ACTN2 Recombinant Mouse Monoclonal Antibody (rACTN2/8177). Inset: PBS instead of primary antibody; secondary only negative control.

## Specificity & Comments

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.

## Supplied As

200ug/ml of Ab produced in a mammalian-based expression system. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

## Storage and Stability

Antibody with azide - store at 2 to 8 °C. Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

## Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

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