

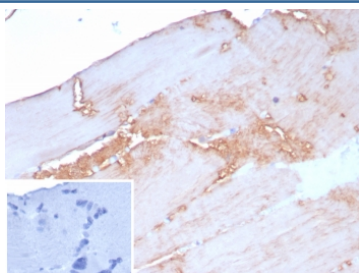
## ACTN2 Antibody / Alpha Actinin 2 / Sarcomeric Alpha Actinin [clone rACTN2/8177] (V4813)

Catalog No.	Formulation	Size
V4813-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4813-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4813SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

### Recombinant MOUSE MONOCLONAL

[Bulk quote request](#)

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Recombinant Mouse Monoclonal
Isotype	Mouse IgG1, kappa
Clone Name	rACTN2/8177
Purity	Protein A/G affinity
UniProt	P35609
Localization	Cytoplasm
Applications	Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This ACTN2 antibody is available for research use only.



IHC staining of FFPE human skeletal muscle tissue with ACTN2 antibody (clone rACTN2/8177). Inset: PBS used in place of primary Ab (secondary Ab negative control).  
HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.

## Description

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.

## Application Notes

Optimal dilution of the ACTN2 antibody should be determined by the researcher.

## Immunogen

A portion of amino acids 557-692 from the human protein was used as the immunogen for the ACTN2 antibody.

## Storage

Aliquot the ACTN2 antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.