

Alpha Actinin 4 / ACTN4 Antibody

Mouse Monoclonal Antibody [Clone 93]

Catalog No	Format	Size
81-MSM1-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
81-MSM1-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
81-MSM1-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

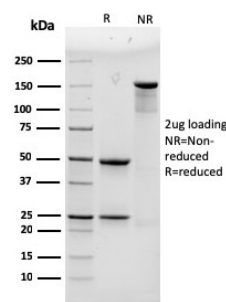
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

Product Details

Clone	93
Gene Name	ACTN4
Immunogen	Recombinant full-length human ACTN4 protein
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	105kDa
Cellular Localization	Cell junction, Cytoplasm, Cytoskeleton, Nucleus, Perinuclear region, Stress fiber
Species Reactivity	Human
Positive Control	Human colon or kidney tissue (IHC).

*Optimal dilution for a specific application should be determined.

Product Images for Alpha Actinin 4 / ACTN4 Antibody



SDS-PAGE Analysis of Purified ACTN4 Mouse Monoclonal Antibody (93).
Confirmation of Purity and Integrity of Antibody.

Specificity & Comments

The spectrin gene family encodes a diverse group of cytoskeletal proteins that include spectrins, dystrophins and -actinins. There are four tissue-specific -actinins, namely -actinin-1, -actinin-2, -actinin-3 and -actinin-4, which are localized to muscle and non-muscle cells, including skeletal, cardiac and smooth muscle cells, as well as within the cytoskeleton. Each -actinin protein contains one Actin-binding domain, two calponin-homology domains, two EF-hand domains and four spectrin repeats, through which they function as bundling proteins that can cross-link F-Actin, thus anchoring Actin to a variety of intracellular structures. Defects in the gene encoding -actinin-4 are the cause of focal segmental glomerulosclerosis 1 (FSGS1), a common renal lesion characterized by decreasing kidney function and, ultimately, renal failure.

Supplied As

200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. 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.

Research Areas

Cardiovascular

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.
