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36-3407: Anti-Alpha Actinin 4 / ACTN4 Monoclonal Antibody(Clone: 93)

Clonality :	Monoclonal
Clone Name :	93
Application :	IHC
Reactivity :	Human
Gene :	ACTN4
Gene ID :	81
Uniprot ID :	O43707
Alternative Name :	F-actin cross-linking protein; Focal segmental glomerulosclerosis 1 (FSG1); Non-muscle alpha-actinin-4
Isotype :	Mouse IgG
Immunogen Information :	Recombinant full-length human ACTN4 protein

Description

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, throμgh 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.

Product Info

Amount :	20 μg / 100 μg
Content :	200 μg/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 condition :	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.

Application Note

Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes 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&degC followed by cooling at RT for 20 minutes);

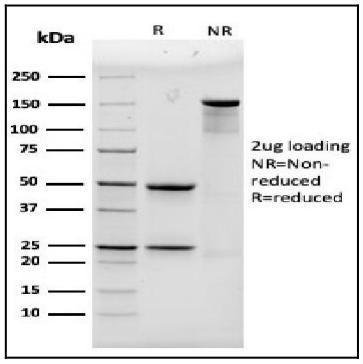

Fig. 1: SDS-PAGE Analysis Purified ACTN4 Mouse Monoclonal Antibody (93). Confirmation of Purity and Integrity of Antibody.