

## Actinin $\alpha$ 2 polyclonal antibody

Catalog: BS90024

Host: Rabbit

Reactivity: Human, Mouse, Rat

### BackGround:

The spectrin gene family encodes a diverse group of cytoskeletal proteins that include spectrins, dystrophins and  $\alpha$ -actinins. There are four tissue-specific  $\alpha$ -actinins, namely  $\alpha$ -actinin-1,  $\alpha$ -actinin-2,  $\alpha$ -actinin-3 and  $\alpha$ -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  $\alpha$ -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  $\alpha$ -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:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

### Molecular Weight:

104 kDa

### Swiss-Prot:

P35609(Human)      Q9JI91(Mouse)      EntrezGene:291245(Rat)

### Purification&Purity:

ProA affinity purified

### Applications:

WB:1:1,000-1:2,000

IHC:1:50-1:200

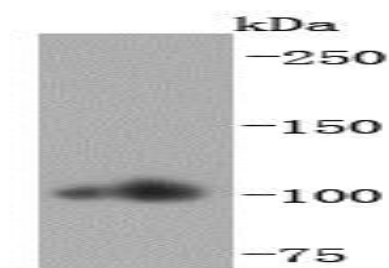
### Storage&Stability:

Store at +4 °C after thawing. Aliquot store at -20 °C or -80 °C. Avoid repeated freeze / thaw cycles.

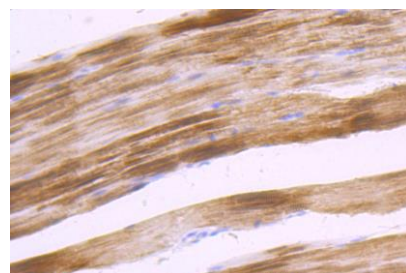
### Specificity:

Actinin  $\alpha$ 2 polyclonal antibody detects endogenous levels of Actinin  $\alpha$ 2 protein.

### DATA:



Western blot analysis of ACTN2 on human heart lysates using anti-ACTN2 antibody at 1/1,000 dilution.



Immunohistochemical analysis of paraffin-embedded rat skeletal muscle tissue using anti-ACTN2 antibody. Counter stained with hematoxylin.

### Note:

For research use only, not for use in diagnostic procedure.

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