

## Actinin- $\alpha$ 1/2/3/4 (W48) polyclonal antibody

Catalog: BS2206

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:

~ 103 kDa

### Swiss-Prot:

P12814/P35609/Q08043/O43707

### Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

### Applications:

WB: 1:500~1:1000

IHC: 1:50~1:200

### Storage&Stability:

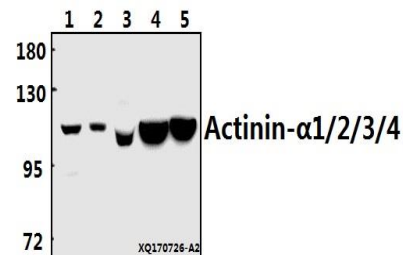
Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

### Specificity:

Actinin- $\alpha$ 1/2/3/4 (W48) polyclonal antibody detects en-

dogenous levels of total  $\alpha$ -actinin protein.

### DATA:



Western blot (WB) analysis of Actinin- $\alpha$ 1/2/3/4 (W48) pAb at 1:500 dilution

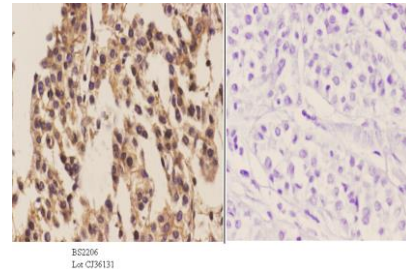
Lane1: The Kidney tissue lysate of Mouse(40ug)

Lane2: The Brain tissue lysate of Rat(40ug)

Lane3: HEK293T whole cell lysate(40ug)

Lane4: PC3 whole cell lysate(40ug)

Lane5: U-87MG whole cell lysate(40ug)



Immunohistochemistry (IHC) analyzes of Actinin- $\alpha$ 1/2/3/4 (W48) pAb in paraffin-embedded human liver carcinoma tissue at 1:50. showing cytoplasmic and nucleus staining. Negative control (the right) Using PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG-biotin followed by avidin-peroxidase.

### Note:

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

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## PRODUCT DATA SHEET

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