bsm-60423R

## [ Primary Antibody ]

# Bioss ANTIBODIES

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## alpha Actinin 4 Recombinant Rabbit mAb

- DATASHEET -

Host: Rabbit Isotype: IgG
Clonality: Recombinant CloneNo.: A12H9
GeneID: 81 SWISS: O43707

Target: alpha Actinin 4

**Purification:** affinity purified by Protein A

Concentration: 1mg/ml

**Storage:** 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50%

Glycerol.

Shipped at 4°C. Store at -20°C for one year. Avoid repeated

freeze/thaw cycles.

**Background:** 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 nonmuscle 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 nonmuscle, alpha actinin isoform which is concentrated in the cytoplasm, and thought to be involved in metastatic processes. Mutations in this gene have been associated with focal and segmental

glomerulosclerosis. [provided by RefSeq, Jul 2008].

Applications: WB (1:500-2000)

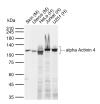
IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500) ICC/IF (1:50-200)

**Reactivity:** Human, Mouse

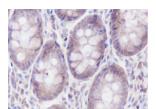
Predicted MW.: 105 kDa

Subcellular Cytoplasm ,Nucleus

#### VALIDATION IMAGES



Sample: Lane 1: Mouse Skin tissue lysates Lane 2: Mouse Uterus tissue lysates Lane 3: Human HeLa cell lysates Lane 4: Human Jurkat cell lysates Lane 5: Human U251 cell lysates Primary: Anti-alpha Actinin 4 (bsm-60423R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 105 kDa Observed band size: 108 kDa



Tissue: Human colon Section type: Formalin fixed & Paraffin -embedded section Retrieval method: High temperature and high pressure Retrieval buffer: Tris/EDTA buffer, pH 9.0 Primary ab dilution: 1:100 Primary ab incubation condition: 1 hour at room temperature Secondary ab: SP Kit(Rabbit) (sp-0023) Counter stain: Hematoxylin (Blue) Comment: Color brown is the positive signal for bsm-60423R

### - SELECTED CITATIONS -

• [IF=4.7] Qianru Chi. et al. In vitro and in silico analyses reveal the toxicity of metolachlor to grass carp hepatocytes and the antagonism of melatonin. PESTIC BIOCHEM PHYS. 2024 Apr;:105930 WB ;Fish. 10.1016/j.pestbp.2024.105930