

bsm-33272M**[Primary Antibody]**

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Alpha-actinin-1 Mouse mAb**— DATASHEET —**

Host: Mouse	Isotype: IgG	Applications: IHC-P (1:100-500) IHC-F (1:500-1000) IF (1:500-1000) ICC/IF (1:100-500) ELISA (1:5000-10000) Reactivity: (predicted: Human, Mouse, Rat) Predicted MW.: 103 kDa Subcellular Location: Cytoplasm
Clonality: Monoclonal	CloneNo.: 6A10	
GeneID: 87	SWISS: P12814	
Target: Alpha-actinin-1		
Purification: affinity purified by Protein G		
Concentration: 1mg/ml		
Storage: Size : 50ul/100ul/200ul 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Size : 200ug (PBS only) 0.01M PBS 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, cytoskeletal, alpha actinin isoform and maps to the same site as the structurally similar erythroid beta spectrin gene. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]		

— SELECTED CITATIONS —

- **[IF=5.5]** Chen, Yejia. et al. Complement C5a induces the generation of neutrophil extracellular traps by inhibiting mitochondrial STAT3 to promote the development of arterial thrombosis. THROMB J. 2022 Dec;20(1):1-14 WB ;Human. 35488279