

For Research Use Only

Alpha Actinin Monoclonal antibody, PBS Only



Catalog Number: 66895-1-PBS

Basic Information

Catalog Number: 66895-1-PBS	GenBank Accession Number: BC015766	Purification Method: Protein A purification
Size: 1 mg/ml	GeneID (NCBI): 87	CloneNo.: 1E2E1
Source: Mouse	UNIPROT ID: P12814	
Isotype: IgG2b	Full Name: actinin, alpha 1	
Immunogen Catalog Number: AG28383	Calculated MW: 103 kDa	
	Observed MW: 100-105 kDa	

Applications

Tested Applications:
WB, Indirect ELISA, IHC, IF, FC

Species Specificity:
Human, rat, mouse

Background Information

Alpha Actinins are highly conserved actin-binding proteins that form antiparallel homodimers with the actin-binding domains on each end of the molecule, allowing crosslinking of actin molecules. There are four alpha actinin isoforms identified: two ubiquitously expressed cytoskeletal isoforms (ACTN1 and ACTN4) and two striated muscle-specific sarcomeric isoforms (ACTN2 and ACTN3). ACTN1 is also alternatively spliced to form smooth muscle or brain specific isoforms. This antibody recognizes endogenous ACTN1, while it may cross-react with ACTN2 and ACTN4.

Storage

Storage:
Store at -80°C.

Storage Buffer:
PBS Only

For technical support and original validation data for this product please contact:

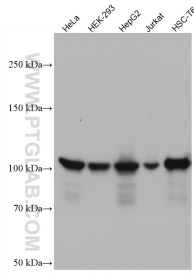
T: 4006900926

E: Proteintech-CN@ptglab.com

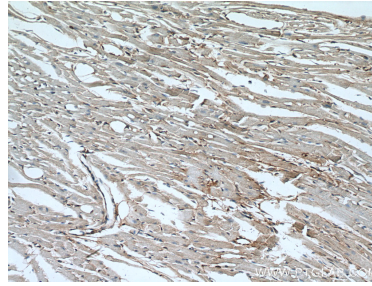
W: ptgcn.com

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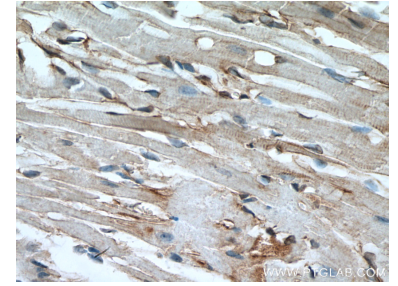
Selected Validation Data



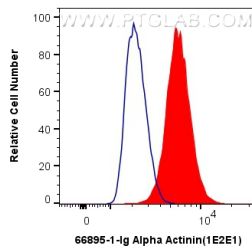
Various lysates were subjected to SDS PAGE followed by western blot with 66895-1-Ig (alpha-Actinin antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66895-1-PBS in a different storage buffer formulation.



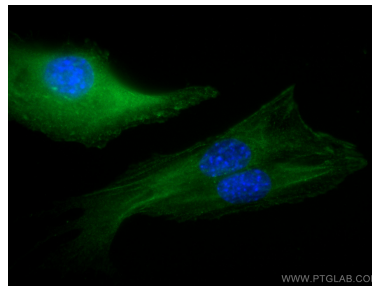
Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 66895-1-Ig (alpha Actinin antibody) at dilution of 1:1000 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66895-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 66895-1-Ig (alpha Actinin antibody) at dilution of 1:1000 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66895-1-PBS in a different storage buffer formulation.



1X10⁶ A431 cells were intracellularly stained with 0.4 ug Anti-Human Alpha Actinin (66895-1-Ig, Clone:1E2E1) and Coralite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Mouse IgG2b Isotype Control (MPC-11) (65128-1-Ig, Clone: MPC-11) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). This data was developed using the same antibody clone with 66895-1-PBS in a



Immunofluorescent analysis of (-20°C Methanol) fixed C2C12 cells using Alpha Actinin antibody (66895-1-Ig, Clone: 1E2E1) at dilution of 1:400 and Coralite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). This data was developed using the same antibody clone with 66895-1-PBS in a different storage buffer formulation.