For Research Use Only

Alpha Actinin Monoclonal antibody

Catalog Number:66895-1-lg 7 Publications



Basic Information

Catalog Number: GenBank Accession Number:

66895-1-lg BC015766 GeneID (NCBI): Size:

150ul, Concentration: 1500 ug/ml by 87 Nanodrop and 1000 ug/ml by $Bradford_{\mbox{UNIPROT ID}}$: method using BSA as the standard; P12814

Calculated MW:

Source: Full Name: Mouse actinin, alpha 1

lgG2b 103 kDa Immunogen Catalog Number: Observed MW:

AG28383 100-105 kDa **Purification Method:**

Protein A purification

CloneNo.: 1E2E1

Recommended Dilutions:

WB: 1:5000-1:50000 IHC: 1:500-1:2000 IF/ICC: 1:200-1:800

FC (Intra): 0.40 ug per 10^6 cells in a

100 µl suspension

Applications

Tested Applications:

WB, IHC, IF/ICC, FC (Intra), ELISA

Cited Applications:

WB. IF

Isotype:

Species Specificity:

human, mouse, rat, pig, rabbit

Cited Species:

human, mouse, rat, mosquito

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: HeLa cells, RAW 264.7 cells, HEK-293 cells, pig brain tissue, HepG2 cells, Jurkat cells, HSC-T6 cells, rabbit brain tissue

IHC: mouse heart tissue. IF/ICC : C2C12 cells. FC (Intra): A431 cells,

Background Information

Alpha Actinins are highly conserved actin-binding proteins that form antiparallel homodimers with the actinbinding 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 musclespecific sarcomeric isoforms (ACTN2 and ACTN3). ACTN1 is also alternatively spliced to form smooth muscle or brain specific isoforms. This antibody recognize endogenous ACTN1, while it may cross-react with ACTN2 and ACTN4.

Notable Publications

Author	Pubmed ID	Journal	Application
Jialu Qiao	34826589	Cell Signal	WB
Zequn Zheng	35873575	Front Pharmacol	IF
Jiayu Ren	39158709	Cell Mol Life Sci	IF

Storage

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

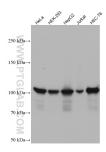
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

E: proteintech@ptglab.com W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

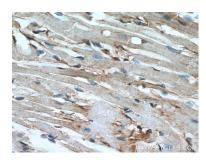
Selected Validation Data



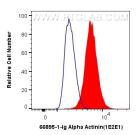
Various lysates were subjected to SDS PAGE followed by western blot with 66895-1-Ig (a-Actinin antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



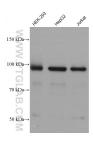
Immunohistochemical analysis of paraffinembedded mouse heart tissue slide using 66895-1-Ig (alpha Actinin antibody) at dilution of 1:1000 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



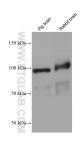
Immunohistochemical analysis of paraffinembedded mouse heart tissue slide using 66895-1- Ig (alpha Actinin antibody) at dilution of 1:1000 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



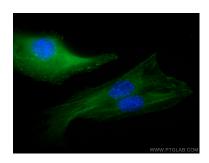
1X10^6 A431 cells were intracellularly stained with 0.4 ug Anti-Human Alpha Actinin (66895-1-lg, Clone:1E2E1) and CoraLite® 488-Conjugated AffiniPure Goat Anti-Mouse IgC(H+L) at dilution 1:1000 (red), or 0.4 ug Mouse IgC2b Isotype Control (MPC-11) (65128-1-lg, Clone: MPC-11) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Various lysates were subjected to SDS PAGE followed by western blot with 66895-1-lg (Alpha Actinin antibody) at dilution of 1:50000 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 66895-1-lg (Alpha Actinin antibody) at dilution of 1:50000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Methanol) fixed C2C12 cells using Alpha Actinin antibody (66895-1-1g, Clone: 1E2E1) at dilution of 1:400 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).