

For Research Use Only

Alpha Actinin Polyclonal antibody

Catalog Number: 11313-2-AP

Featured Product

27 Publications



Basic Information

Catalog Number: 11313-2-AP	GenBank Accession Number: BC015766	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 600 µg/ml by Nanodrop;	GeneID (NCBI): 87	Recommended Dilutions: WB 1:2000-1:10000 IHC 1:50-1:500 IF 1:50-1:500
Source: Rabbit	Full Name: actinin, alpha 1	
Isotype: IgG	Calculated MW: 103 kDa	
Immunogen Catalog Number: AG1859	Observed MW: 100-105 kDa	

Applications

Tested Applications: FC, IF, IHC, WB, ELISA	Positive Controls:
Cited Applications: IF, IHC, WB	WB : NIH/3T3 cells, HeLa cells, mouse spleen tissue, rat heart tissue, C6 cells
Species Specificity: human, mouse, rat	IHC : human heart tissue,
Cited Species: human, rat, mouse	IF : rat heart tissue, mouse heart tissue
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

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 recognize endogenous ACTN1, while it may cross-react with ACTN2 and ACTN4.

Notable Publications

Author	Pubmed ID	Journal	Application
Georgios Kremastiotis	34848763	Sci Rep	IF
Yue-Wei Yu	36387933	Mediators Inflamm	WB
Jie Ren	34804049	Front Immunol	WB

Storage

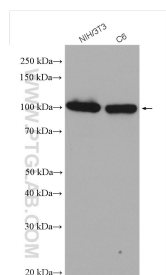
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

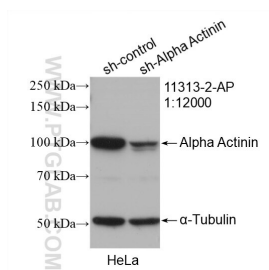
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

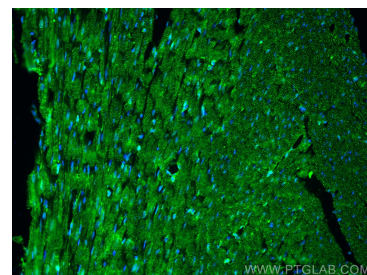
Selected Validation Data



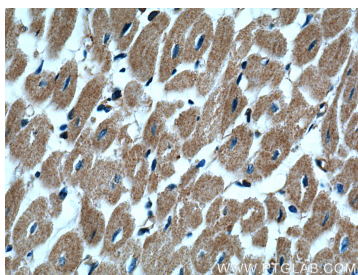
Various lysates were subjected to SDS PAGE followed by western blot with 11313-2-AP (Alpha Actinin antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



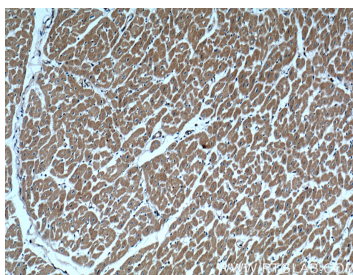
WB result of Alpha Actinin antibody (11313-2-AP; 1:12000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Alpha Actinin transfected HeLa cells.



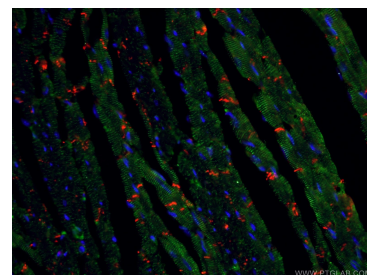
Immunofluorescent analysis of (4% PFA) fixed rat heart tissue using Alpha Actinin antibody (11313-2-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



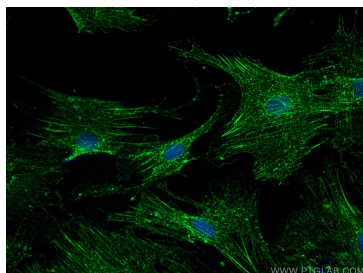
Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 11313-2-AP (alpha Actinin antibody at dilution of 1:200 (under 40x lens).



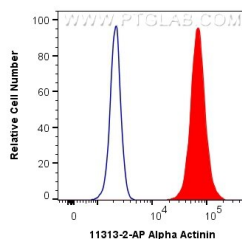
Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 11313-2-AP (alpha Actinin antibody at dilution of 1:200 (under 10x lens).



Immunofluorescent analysis of (4% PFA) fixed mouse heart tissue using 11313-2-AP (alpha Actinin antibody) at dilution of 1:50 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). The section was co-stained with 66219-1-Ig (N-cadherin) in red.



Immunofluorescent analysis of (-20°C Methanol) fixed mouse heart tissue using Alpha Actinin antibody (11313-2-AP) at dilution of 1:500 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



1X10⁶ A431 cells were intracellularly stained with 0.4 ug Anti-Human Alpha Actinin (11313-2-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).