For Research Use Only

## ACTN2 Polyclonal antibody

Catalog Number:14221-1-AP 26 Publications



	Catalog Number: 14221-1-AP	GenBank Accession BC051770	n Number:	Purification Method: Antigen affinity purification	
	Size:	GenelD (NCBI):		Recommended Dilutions:	
	150ul , Concentration: 650 ug/ml by			WB: 1:5000-1:50000	
	Nanodrop;	UNIPROT ID:		IP: 0.5-4.0 ug for 1.0-3.0 mg of total	
	Source:	P35609		protein lysate IHC: 1:500-1:2000	
	Rabbit	Full Name:		IF-P: 1:200-1:800	
	Isotype:	actinin, alpha 2		IF-Fro: 1:200-1:800	
	IgG Immunogen Catalog Number: AG5459	Calculated MW: 104 kDa		IF/ICC: 1:50-1:500	
		Observed MW: 103 kDa			
Applications	WB, IHC, IF/ICC, IF-P, IF-Fro, IP, ELISA WB : mouse   Cited Applications: tissue, moi   WB, IHC, IF mouse kid   Species Specificity: IP : HeLa ce   human, mouse, rat IHC : mouse   Cited Species: IHC : mouse		Positive Con	trols:	
			WB : mouse brain tissue, C2C12 cells, mouse lung tissue, mouse skeletal muscle tissue, mouse heart, mouse kidney, rat skeletal muscle		
					IP : HeLa cells,
			IHC : mouse heart tissue, mouse skeletal muscle tiss		
			IF-P : 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		IF-Fro : mouse heart tissue,
	IF/ICC : C2C12 cells, NIH/3T3 cells, Human iPSC derived cardiomyocyte				
	Background Information	and functions to anchor myofibrillar binding protein with multiple roles i along microfilament bundles and ad contrast, skeletal, cardiac, and smoot where they help anchor the myofibri	actin thin filaments n different cell types herens-type junction h muscle isoforms a llar actin filaments.	and titin to Z-disc: In nonmuscle ce Is, where it is invo re localized to the Mutations in ACT	lved in binding actin to the membrane. 2 disc and analogous dense bodies,
Notable Publications	Author Pu	bmed ID Jo	urnal	Application	
Notable Publications			urnal og Biophys Mol Bio		
Notable Publications	Xueling He 28	969971 Pro			
Notable Publications	Xueling He 28 Maike Schuldt 33	969971 Pro 148509 J N	og Biophys Mol Bio	ol WB	
Notable Publications	Xueling He 28 Maike Schuldt 33	969971 Pro 148509 J N	og Biophys Mol Bio Aol Cell Cardiol	ol WB	
	Xueling He   28     Maike Schuldt   33     Qianqian Liang   36     Storage:   35     Storage:   35     Storage Buffer:   36	969971 Pro 148509 J N 413948 De ter shipment.	og Biophys Mol Bio Aol Cell Cardiol	ol WB	
Storage	Xueling He 28 Maike Schuldt 33 Qianqian Liang 36 Storage: Store at -20°C. Stable for one year aft	969971 Prr 148509 J N 413948 De er shipment. % glycerol, pH7.3	og Biophys Mol Bio Aol Cell Cardiol	ol WB	
Notable Publications Storage	Xueling He28Maike Schuldt33Qianqian Liang36Storage:Storage:Storage Buffer:PBS with 0.02% sodium azide and 50	969971 Prr 148509 J N 413948 De er shipment. % glycerol, pH7.3	og Biophys Mol Bio Aol Cell Cardiol	ol WB	

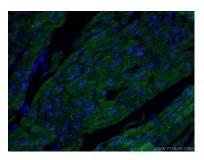
For technical support and original validation data for this product please contact: T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free E: proteintech@ptglab.com in USA), or 1(312) 455-8498 (outside USA) W: ptglab.com

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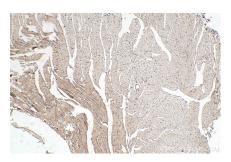
## Selected Validation Data



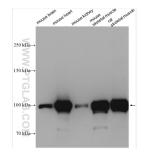
Human iPSC derived cardiomyocyte in 2D culture, with alpha actinin (14221-1-AP) and DAPI. Image courtesy of Chandan Kadur Nagaraju, Experimental Cardiology, KU Leuven, Belgium.



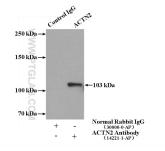
Immunofluorescent analysis of (4% PFA) fixed mouse heart tissue using 14221-1-AP (ACTN2 antibody) at dilution of 1:400 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



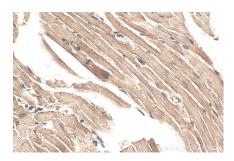
Immunohistochemical analysis of paraffinembedded mouse heart tissue slide using 14221-1-AP (ACTN2 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Various lysates were subjected to SDS PAGE followed by western blot with 14221-1-AP (ACTN2 antibody) at dilution of 1:30000 incubated at room temperature for 1.5 hours.



IP result of anti-ACTN2 (IP:14221-1-AP, 4ug; Detection:14221-1-AP 1:1000) with HeLa cells lysate 1080ug.



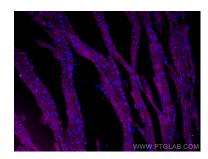
Immunohistochemical analysis of paraffinembedded mouse heart tissue slide using 14221-1-AP (ACTN2 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



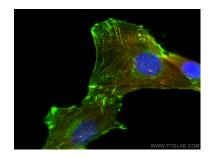
Immunohistochemical analysis of paraffinembedded mouse skeletal muscle tissue slide using 14221-1-AP (ACTN2 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded mouse skeletal muscle tissue slide using 14221-1-AP (ACTN2 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed frozen OCT-embedded mouse heart tissue using 14221-1-AP (ACTN2 antibody) at dilution of 1:400.



Immunofluorescent analysis of (-20°C Ethanol) fixed C2C12 cells using ACTN2 antibody (14221-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), 594phalloidin (red).