For Research Use Only

Myosin Light Chain 2/MLC-2V Polyclonal antibody Catalog Number:10906-1-AP 220 Publications

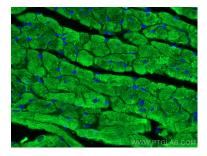


Basic Information	Catalog Number: 10906-1-AP	GenBank Accession Number: BC015821		Purification Method: Antigen affinity purification	
	Size: 150ul , Concentration: 700 ug/ml by Nanodrop; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG1356	UNIPROT ID: P10916 Full Name: myosin, light chain 2, re cardiac, slow Calculated MW: 19 kDa Observed MW:	egulatory,	Recommended Dilutions: WB 1:2000-1:16000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:400-1:1600 IF-P 1:50-1:500 IF-Fro 1:50-1:500	
		19 kDa			
Applications	WB, IHC, IF-P, IF-Fro, FC (Intra), IP, ELISAWB : mCited Applications:IP : moWB, IHC, IF, FC (Intra)IHC : mSpecies Specificity:IHC : mhuman, mouse, rat, zebrafishtissue		Positive Controls: WB : mouse heart tissue, rat heart tissue		
			IP : mouse heart tissue,		
			IHC : mouse heart tissue, human heart tissue, rat hear		
				ico boott ticcuo	
	Ched Species:			buse heart tissue, nouse 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				
	MYL2, also named as MLC-2v and ML cardiomyopathy familial hypertropi			orm. Defects in MYL2 are the cause of	
Background Information	hypertrophic with mid-left ventricul	ar chamber type 2 (MVC2) re four genes of myosin li	. MYL2 has be ght chain 2 (N	een widely used as a marker of mature	
	hypertrophic with mid-left ventricul ventricular cardiomyocytes. There a and MYL9 (MLC2c). While usually my	ar chamber type 2 (MVC2) re four genes of myosin li). MYL2 has be ght chain 2 (N red to MYL2.	een widely used as a marker of mature ALC2): MYL2 (MLC2v), MYL5, MYL7 (MLC2a	
	hypertrophic with mid-left ventricul ventricular cardiomyocytes. There a and MYL9 (MLC 2c). While usually my Author Pr	ar chamber type 2 (MVC2) re four genes of myosin li yosin light chain 2 is refer ubmed ID Journa). MYL2 has be ght chain 2 (N red to MYL2.	een widely used as a marker of mature	
	hypertrophic with mid-left ventricul ventricular cardiomyocytes. There a and MYL9 (MLC2c). While usually my Author Pe Arvin H Soepriatna 3/	ar chamber type 2 (MVC2) re four genes of myosin li yosin light chain 2 is refer ubmed ID Journa 4777603 Cell Ma	I. MYL2 has be ght chain 2 (M red to MYL2.	een widely used as a marker of mature ALC2): MYL2 (MLC2v), MYL5, MYL7 (MLC2a Application	
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Background Information Notable Publications	hypertrophic with mid-left ventricul ventricular cardiomyocytes. There a and MYL9 (MLC2c). While usually my Author Pro- Arvin H Soepriatna 3- Bin Li 24	ar chamber type 2 (MVC2) re four genes of myosin li yosin light chain 2 is refer ubmed ID Journa 4777603 Cell Mo 3962583 Stem C 2254308 Sci Rep rer shipment.	I. MYL2 has be ght chain 2 (<i>I</i> red to MYL2. L Dl Bioeng ell Res Ther	een widely used as a marker of mature ALC2): MYL2 (MLC2v), MYL5, MYL7 (MLC2 Application IF IF	

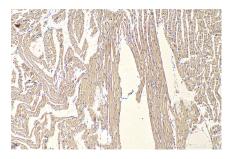
For technical support and original validation data for this product please contact: T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free E: proteintech@ptglab.com in USA), or 1(312) 455-8498 (outside USA) W: ptglab.com

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

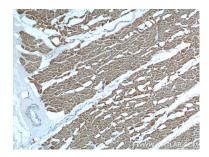
Selected Validation Data



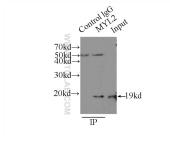
Immunofluorescent analysis of (4% PFA) fixed mouse heart tissue using Myosin Light Chain 2/MLC-2V antibody (10906-1-AP) at dilution of 1:200 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffinembedded mouse heart tissue slide using 10906-1-AP (Myosin Light Chain 2/MLC-2V antibody) at dilution of 1:800 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human heart tissue slide using 10906-1-AP (Myosin Light Chain 2 antibody at dilution of 1:200 (under 10x lens).



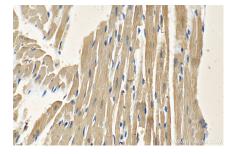
IP result of anti-Myosin Light Chain 2/MLC-2V (IP:10906-1-AP, 3ug; Detection:10906-1-AP 1:500) with mouse heart tissue lysate 6000ug.



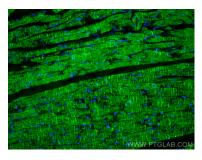
Various lysates were subjected to SDS PAGE followed by western blot with 10906-1-AP (Myosin Light Chain 2/MLC-2V antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



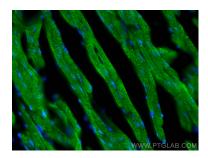
Immunohistochemical analysis of paraffinembedded rat heart tissue slide using 10906-1-AP (Myosin Light Chain 2/MLC-2V antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



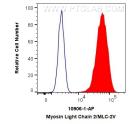
Immunohistochemical analysis of paraffinembedded mouse heart tissue slide using 10906-1-AP (Myosin Light Chain 2/MLC-2V antibody) at dilution of 1:800 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse heart tissue using Myosin Light Chain 2/MLC-2V antibody (10906-1-AP) at dilution of 1:200 and Multi-rAb CoraLite ® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed frozen OCT-embedded mouse heart tissue using 10906-1-AP (Myosin Light Chain 2/MLC-2V antibody) at dilution of 1:200 and Coralite488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



1X10^6 C2C12 cells were intracellularly stained with 0.4 ug Anti-Human Myosin Light Chain 2/MLC-2V (10906-1-AP) and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).