

For Research Use Only

MYL7 Polyclonal antibody

Catalog Number: 17283-1-AP **16 Publications**



Basic Information

Catalog Number: 17283-1-AP	GenBank Accession Number: BC027915	Purification Method: Antigen affinity purification
Size: 650 µg/ml	GeneID (NCBI): 58498	Recommended Dilutions: WB 1:1000-1:4000
Source: Rabbit	UNIPROT ID: Q01449	IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate
Isotype: IgG	Full Name: myosin, light chain 7, regulatory	IHC 1:50-1:500
Immunogen Catalog Number: AG11058	Calculated MW: 175 aa, 19 kDa	IF 1:50-1:500
	Observed MW: 19 kDa	

Applications

Tested Applications:
FC, IF-P, IHC, IP, WB, ELISA

Cited Applications:
WB, IF, IHC, CoIP

Species Specificity:
human, mouse, rat

Cited Species:
human, rat, mouse

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: mouse heart tissue, mouse skeletal muscle tissue, rat skeletal muscle tissue

IP: mouse heart tissue,

IHC: mouse heart tissue, human heart tissue

IF: mouse heart tissue,

Background Information

MYL7, also known as myosin light chain 2a (MLC2a), is essential for heart development. The expression of MYL7 in heart is predominantly restricted to the atrium. So its expression has been considered as useful marker for atrial cardiomyocytes.

Notable Publications

Author	Pubmed ID	Journal	Application
Yuanbiao Zhao	26354680	Nat Commun	IF
Farhad Khosravi	35453733	Biology (Basel)	WB
Xiangyu Zhang	35246800	Stem Cell Rev Rep	IF

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

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

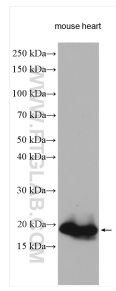
T: 4006900926

E: Proteintech-CN@ptglab.com

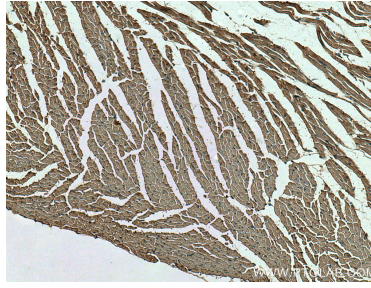
W: ptgcn.com

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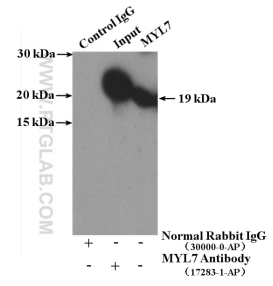
Selected Validation Data



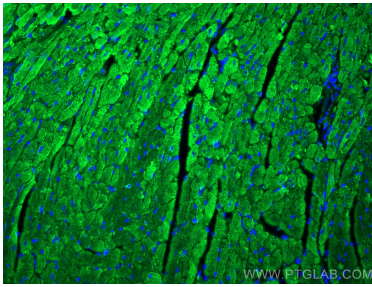
Mouse heart lysates were subjected to SDS PAGE followed by western blot with 17283-1-AP (MYL7 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



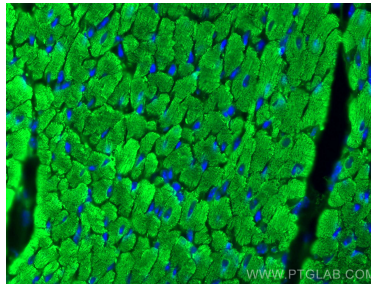
Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 17283-1-AP (MYL7 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



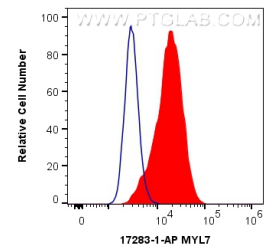
IP result of anti-MYL7 (IP:17283-1-AP, 4ug; Detection:17283-1-AP 1:700) with mouse heart tissue lysate 4000ug.



Immunofluorescent analysis of (4% PFA) fixed mouse heart tissue using MYL7 antibody (17283-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



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1×10^6 C2C12 cells were intracellularly stained with 0.5 ug Anti-Human MYL7 (17283-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.5 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).