

For Research Use Only

Phospholemman/FXYD1 Polyclonal antibody



Catalog Number: 13721-1-AP **27 Publications**

Basic Information

Catalog Number:

13721-1-AP

Size:

550 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG4669

GenBank Accession Number:

BC032800

GeneID (NCBI):

5348

UNIPROT ID:

O00168

Full Name:

FXYP domain containing ion transport regulator 1

Calculated MW:

92 aa, 10 kDa

Observed MW:

10-15 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1500

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

Applications

Tested Applications:

IHC, IP, WB, ELISA

Cited Applications:

WB, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, pig, rabbit, rat

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: human skeletal muscle tissue, rat skeletal muscle tissue, mouse skeletal muscle tissue, rat heart tissue, mouse heart tissue, mouse kidney tissue, human brain tissue

IP: mouse heart tissue,

IHC: mouse heart tissue, human skeletal muscle tissue, human heart tissue

Background Information

FXYP1, also named as PLM and Phospholemman, belongs to the FXYP family. FXYP1 induces a hyperpolarization-activated chloride current when expressed in *Xenopus* oocytes. It may have a functional role in muscle contraction. FXYP1 is a partner protein and regulator of the Na⁺,K⁺-ATPase (Na⁺,K⁺-pump). It may play a role in the acute regulation of the Na⁺,K⁺-ATPase response to exercise. (PMID: 20595385, 21653224)

Notable Publications

Author	Pubmed ID	Journal	Application
Casper Skovgaard	28935825	J Appl Physiol (1985)	
Daiki Watanabe	32833287	J Physiol	WB
Casper Skovgaard	25190744	J Appl Physiol (1985)	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

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

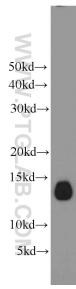
T: 4006900926

E: Proteintech-CN@ptglab.com

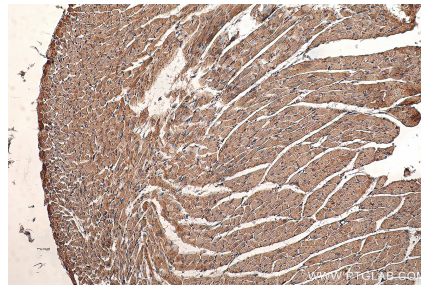
W: ptgcn.com

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

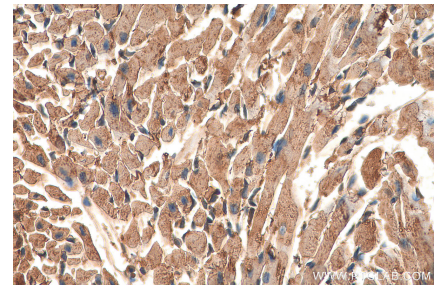
Selected Validation Data



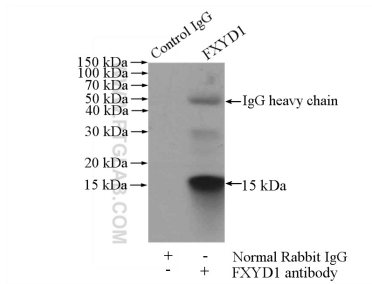
human skeletal muscle tissue were subjected to SDS PAGE followed by western blot with 13721-1-AP (Phospholemman/FXYD1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 13721-1-AP (Phospholemman/FXYD1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 13721-1-AP (Phospholemman/FXYD1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-Phospholemman/FXYD1 (IP:13721-1-AP, 4ug; Detection:13721-1-AP 1:500) with mouse heart tissue lysate 4000ug.