

# 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:

FXYD 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

FXYD1, also named as PLM and Phospholemman, belongs to the FXYD family. FXYD1 induces a hyperpolarization-activated chloride current when expressed in *Xenopus* oocytes. It may have a functional role in muscle contraction. FXYD1 is a partner protein and regulator of the Na<sup>+</sup>,K<sup>+</sup>-ATPase (Na<sup>+</sup>,K<sup>+</sup>-pump). It may play a role in the acute regulation of the Na<sup>+</sup>,K<sup>+</sup>-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

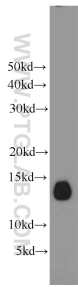
For technical support and original validation data for this product please contact:

T: 4006900926

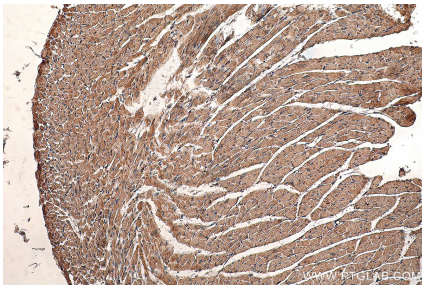
E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)W: [ptgcn.com](http://ptgcn.com)

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

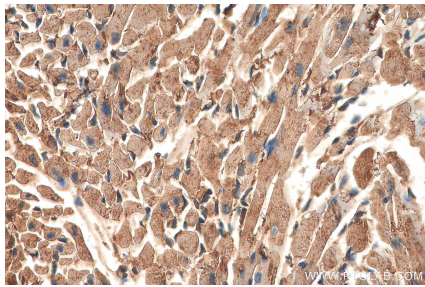
Selected Validation Data



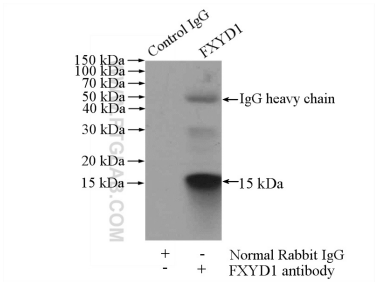
human skeletal muscle tissue were subjected to SDS PAGE followed by western blot with 13721-1-AP (Phospholemman/FXYD1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



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.