

For Research Use Only

# Phospholemman/FXYD1 Polyclonal antibody



Catalog Number: 13721-1-AP **20 Publications**

## Basic Information

### Catalog Number:

13721-1-AP

### Size:

150UL, Concentration: 333 µg/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG4669

### GenBank Accession Number:

BC032800

### GeneID (NCBI):

5348

### 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 IP and 1:500-1:1000

for WB

IHC 1:20-1:200

## Applications

### Tested Applications:

IHC, IP, WB, ELISA

### Cited Applications:

IF, WB

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rabbit, rat, swine

**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:** human heart tissue, human skeletal muscle 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)     |             |
| Casper Skovgaard      | 25190744  | J Appl Physiol (1985)     | WB          |
| Palanikumar Manoharan | 26468207  | Am J Physiol Cell Physiol | 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

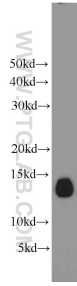
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

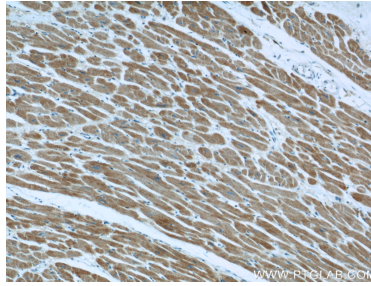
E: proteintech@ptglab.com  
W: ptglab.com

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

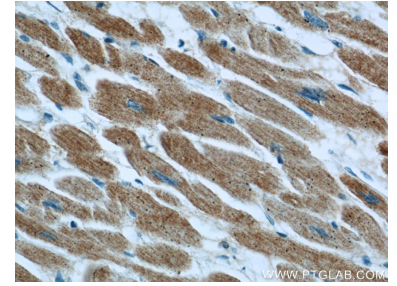
## Selected Validation Data



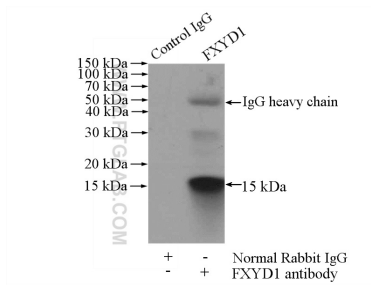
human skeletal muscle tissue were subjected to SDS PAGE followed by western blot with 13721-1-AP (Phospholemman/FXYD1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human heart using 13721-1-AP (Phospholemman/FXYD1 antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human heart using 13721-1-AP (Phospholemman/FXYD1 antibody) at dilution of 1:50 (under 40x lens).



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