

For Research Use Only

Phospholemman/FXYD1 Polyclonal antibody

Catalog Number: 13721-1-AP

27 Publications



Basic Information

Catalog Number:

13721-1-AP

Size:

150ul, Concentration: 550 ug/ml by Nanodrop;

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 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

Applications

Tested Applications:

WB, IP, IHC, 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⁺,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

*** 20ul sizes contain 0.1% BSA

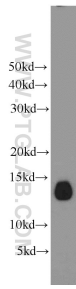
For technical support and original validation data for this product please contact:

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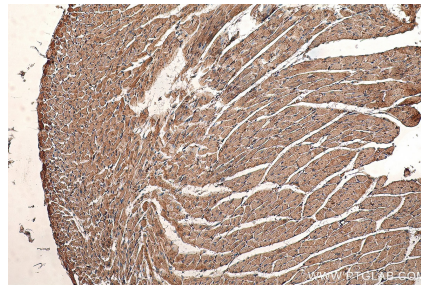
E: proteintech@ptglab.com
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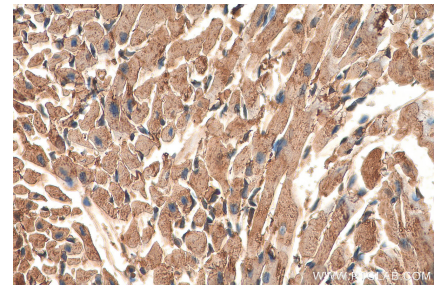
Selected Validation Data



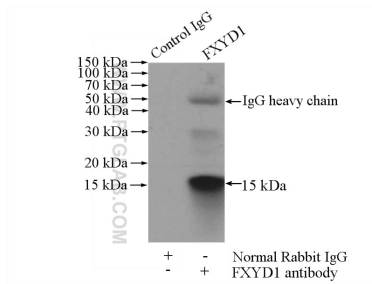
human skeletal muscle tissue were subjected to SDS PAGE followed by western blot with 13721-1-AP (Phospholemman/FXYD1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



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.