

For Research Use Only

# FXYD1 Monoclonal antibody

Catalog Number:67150-1-Ig



## Basic Information

<b>Catalog Number:</b> 67150-1-Ig	<b>GenBank Accession Number:</b> BC032800	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1600 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 5348	<b>CloneNo.:</b> 2C10G9
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> O00168	<b>Recommended Dilutions:</b> WB 1:1000-1:4000 IHC 1:50-1:500 IF-P 1:200-1:800
<b>Isotype:</b> IgG2a	<b>Full Name:</b> FXYD domain containing ion transport regulator 1	
<b>Immunogen Catalog Number:</b> AG25307	<b>Calculated MW:</b> 92 aa, 10 kDa	
	<b>Observed MW:</b> 15 kDa	

## Applications

### Tested Applications:

WB, IHC, IF-P, ELISA

### Species Specificity:

Human, Pig, 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 : human heart tissue, human skeletal muscle tissue, pig heart tissue

IHC : human heart tissue,

IF-P: mouse 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)

## Storage

### Storage:

Store at -20°C.

### 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

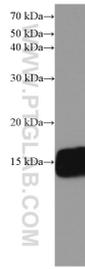
For technical support and original validation data for this product please contact:

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

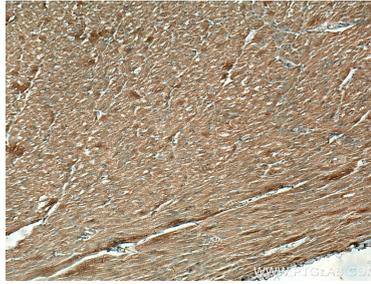
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

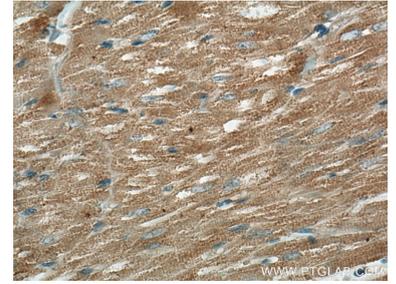
## Selected Validation Data



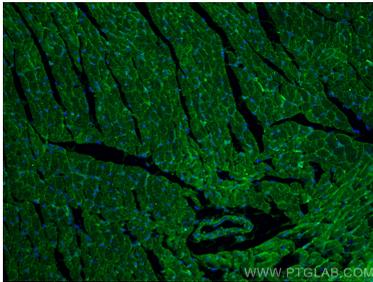
human heart tissue were subjected to SDS PAGE followed by western blot with 67150-1-Ig (FXYD1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



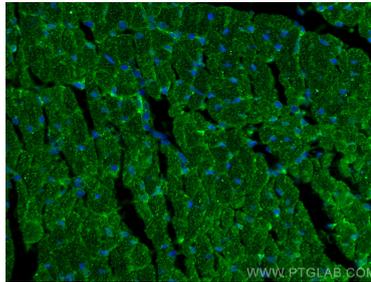
Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 67150-1-Ig (FXYD1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 67150-1-Ig (FXYD1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse heart tissue using FXYD1 antibody (67150-1-Ig, Clone: 2C10G9) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed mouse heart tissue using FXYD1 antibody (67150-1-Ig, Clone: 2C10G9) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L).