

## Phospholemman/FXYD1 Polyclonal Antibody

Catalog number: 13721-1-AP

Size: 21 µg/150 µl

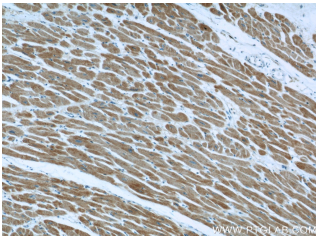
Source: Rabbit

Isotype: IgG

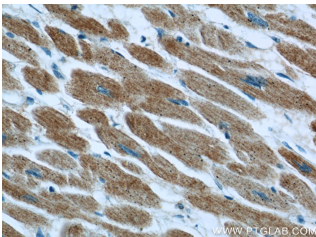
Synonyms:

FXYD1; FXYD1,

Phospholemman, PLM



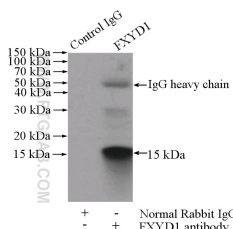
Immunohistochemical of paraffin-embedded human heart using 13721-1-AP(FXYD1 antibody) at dilution of 1:50 (under 10x lens)



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



mouse skeletal muscle tissue were subjected to SDS PAGE followed by western blot with 13721-1-AP(FXYD1 antibody) at dilution of 1:200



### Background

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)

### Applications

<b>Tested applications:</b>	ELISA, WB, IHC, IP
<b>Cited applications:</b>	WB
<b>Species specificity:</b>	Human, Mouse, Rat; other species not tested.
<b>Cited species:</b>	Human, mouse, rat
<b>Calculated Phospholemman/FXYD1 MW:</b>	92aa, 10 kDa
<b>Observed Phospholemman/FXYD1 MW:</b>	10-15kd
<b>Positive WB detected in</b>	Mouse skeletal muscle tissue, human brain tissue, human skeletal muscle tissue, mouse heart tissue, mouse kidney tissue, rat heart tissue, rat skeletal muscle tissue
<b>Positive IP detected in</b>	Mouse heart tissue
<b>Positive IHC detected in</b>	Human heart tissue, human skeletal muscle tissue
<b>Recommended dilution:</b>	WB: 1:200-1:2000 IP: 1:200-1:2000 IHC: 1:20-1:200

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

### Immunogen information

<b>Immunogen:</b>	Ag4669
<b>GenBank accession number:</b>	BC032800
<b>Gene ID (NCBI):</b>	5348
<b>Full name:</b>	FXYD domain containing ion transport regulator 1

### Product information

<b>Purification method:</b>	Antigen affinity purification
<b>Storage:</b>	PBS with 0.02% sodium azide and 50% glycerol pH 7.3. Store at -20°C.

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