

For Research Use Only

# FXYD6 Polyclonal antibody

Catalog Number:15805-1-AP

Featured Product

3 Publications



## Basic Information

### Catalog Number:

15805-1-AP

### Size:

150ul , Concentration: 550 ug/ml by Nanodrop and 193 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG8538

### GenBank Accession Number:

BC018652

### GeneID (NCBI):

53826

### UNIPROT ID:

Q9HQQ3

### Full Name:

FXYD domain containing ion transport regulator 6

### Calculated MW:

95 aa, 11 kDa

### Observed MW:

20 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:3000

IHC 1:20-1:200

## Applications

### Tested Applications:

WB, IHC, ELISA

### Cited Applications:

WB, IF

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse

### Positive Controls:

**WB** : PC-12 cells, mouse brain tissue, human brain tissue, human testis tissue, rat brain tissue, SH-SY5Y cells

**IHC** : human brain tissue, human liver tissue, human ovary tissue, human skin tissue, human spleen tissue, human testis tissue

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

The FXYD family is a group of small single-span transmembrane proteins characterized by a signature sequence containing an FXYD motif, two conserved glycines and a serine residue. Members of the FXYD family, including FXYD1 (phospholemman), FXYD2 (gamma subunit of Na,K-ATPase), FXYD3 (Mat8), FXYD4 (CHIF), FXYD5 (RIC), FXYD6 (phosphohippolin) and FXYD7, are tissue specific regulators of the Na,K-ATPase. FXYD6 is primarily expressed in the brain. It modulates the kinetic activity of Na,K-ATPase and has long-term physiological importance in maintaining cation homeostasis. It may play a role in endolymph composition and has a potential important role in neuronal excitability of the CNS during postnatal development and in the adult brain. On the SDS-PAGE FXYD6 migrates with an apparent molecular weight of approximately 20 kDa, which is larger than the calculated molecular weight of 10.5 kDa (PMID: 15193427; 17209044). The gene encodes FXYD6 is located on chromosome 11q23.3, and it might be a susceptibility gene of schizophrenia.

## Notable Publications

Author	Pubmed ID	Journal	Application
Wen Luo	34212047	Biomed Res Int	WB
Sébastien J Dumas	31818909	J Am Soc Nephrol	IF
Weiliang Hou	38093622	Cancer Med	WB,IF

## 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

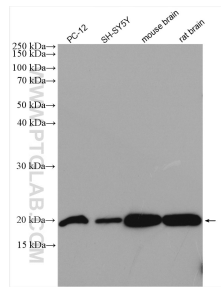
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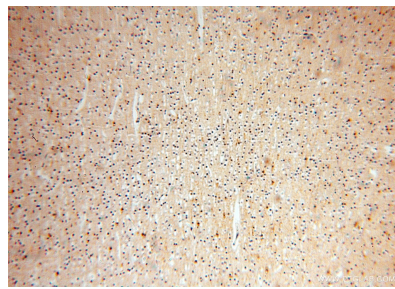
E: proteintech@ptglab.com  
W: ptglab.com

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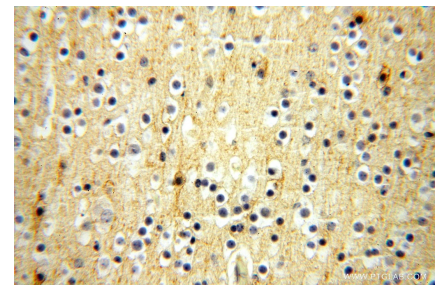
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 15805-1-AP (FXYD6 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human brain using 15805-1-AP (FXYD6 antibody) at dilution of 1:100 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human brain using 15805-1-AP (FXYD6 antibody) at dilution of 1:100 (under 40x lens).