For Research Use Only

FXYD6 Polyclonal antibody

Catalog Number:15805-1-AP Featured Product 4 Publications

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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:
Q9H0Q3

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

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 : 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

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
Boyi Ma	40170843	Front Immunol	WB

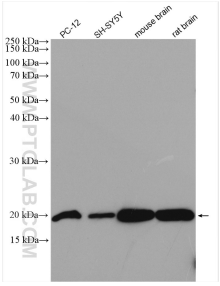
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

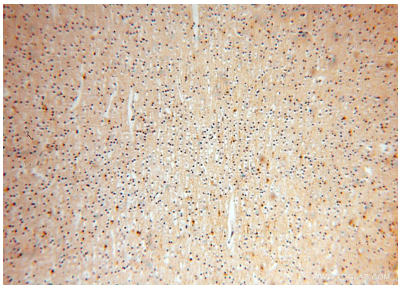
*** 20ul sizes contain 0.1% BSA

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
W: ptglab.com

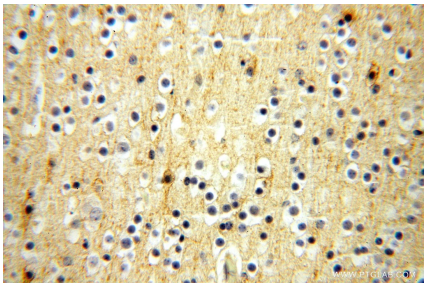
Selected Validation Data



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).