

For Research Use Only

FXYD6 Polyclonal antibody

Catalog Number: 15805-1-AP

Featured Product

4 Publications



Basic Information

Catalog Number:

15805-1-AP

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

IF/ICC: 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, 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

IF/ICC: PC-12 cells,

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 (phospholemmann), 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

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

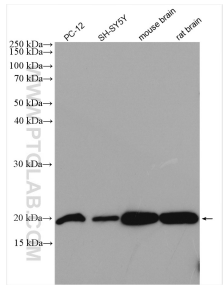
T: 4006900926

E: Proteintech-CN@ptglab.com

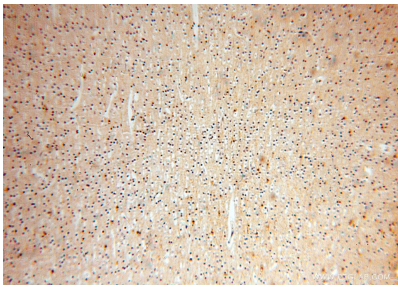
W: ptgcn.com

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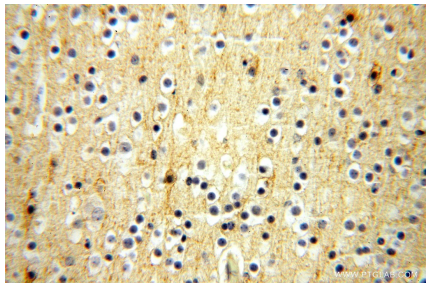
Selected Validation Data



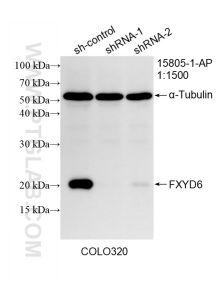
Various lysates were subjected to SDS PAGE followed by western blot with 15805-1-AP (FXYD6 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



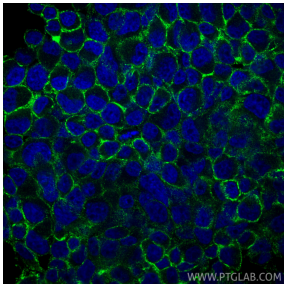
Immunohistochemical analysis of paraffin-embedded human brain using 15805-1-AP (FXYD6 antibody) at dilution of 1:100 (under 10x lens).



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



WB result of FXYD6 antibody (15805-1-AP; 1:1500; incubated at room temperature for 1.5 hours) with sh-Control and sh-FXYD6 transfected COLO 320 cells.



Immunofluorescent analysis of (4% PFA) fixed PC-12 cells using FXYD6 antibody (15805-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).