For Research Use Only

FXYD6 Monoclonal antibody

Catalog Number:68058-1-Ig

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Basic Information

Catalog Number:
68058-1-Ig

Size:
150ul , Concentration: 1000 μg/ml by Nanodrop;

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG8538

GenBank Accession Number:
BC018652

GeneID (NCBI):
53826

Full Name:
FXYD domain containing ion transport regulator 6

Calculated MW:
95 aa, 11 kDa

Observed MW:
20 kDa

Purification Method:
Protein G purification

CloneNo.:
2H1B7

Recommended Dilutions:
WB 1:5000-1:50000
IHC 1:500-1:2000
IF 1:400-1:1600

Applications

Tested Applications:
IF, IHC, WB, ELISA

Species Specificity:
Human, Mouse, Rat, Pig, Rabbit, Chicken

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, rat cerebellum tissue, pig brain tissue, rabbit brain tissue, rat brain tissue, mouse brain tissue, mouse cerebellum tissue

IHC : mouse cerebellum tissue, mouse brain tissue

IF : 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 (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.

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**

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
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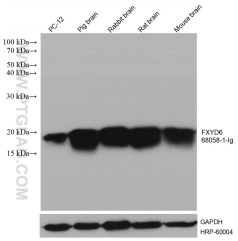
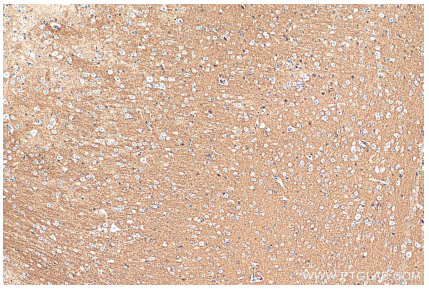
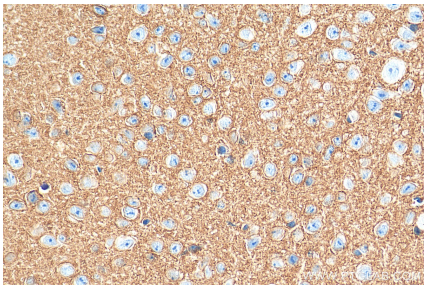
Selected Validation Data



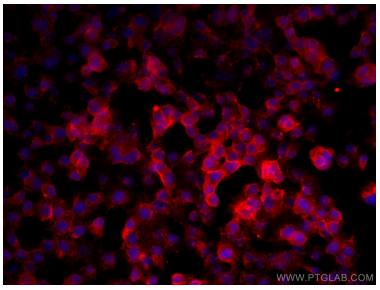
Various lysates were subjected to SDS PAGE followed by western blot with 68058-1-Ig (FXYD6 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue slide using 68058-1-Ig (FXYD6 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue slide using 68058-1-Ig (FXYD6 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed PC-12 cells using FXYD6 antibody (68058-1-Ig, Clone: 2H1B7) at dilution of 1:800 and CoraLite®594-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).