

FXYP6 Monoclonal antibody

Catalog Number: 68058-1-Ig

Basic Information

Catalog Number: 68058-1-Ig	GenBank Accession Number: BC018652	Purification Method: Protein G purification
Size: 150ul, Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 53826	CloneNo.: 2H1B7
Source: Mouse	UNIPROT ID: Q9H0Q3	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:500-1:2000 IF/ICC 1:400-1:1600
Isotype: IgG1	Full Name: FXYP domain containing ion transport regulator 6	
Immunogen Catalog Number: AG8538	Calculated MW: 95 aa, 11 kDa	
	Observed MW: 20 kDa	

Applications

Tested Applications:
WB, IHC, IF/ICC, 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/ICC: PC-12 cells,

Background Information

The FXYP family is a group of small single-span transmembrane proteins characterized by a signature sequence containing an FXYP motif, two conserved glycines and a serine residue. Members of the FXYP family, including FXYP1 (phospholemmann), FXYP2 (gamma subunit of Na,K-ATPase), FXYP3 (Mat8), FXYP4 (CHIF), FXYP5 (RIC), FXYP6 (phosphohippolin) and FXYP7, are tissue specific regulators of the Na,K-ATPase. FXYP6 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 FXYP6 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 FXYP6 is located on chromosome 11q23.3, and it might be a susceptibility gene of schizophrenia.

Storage

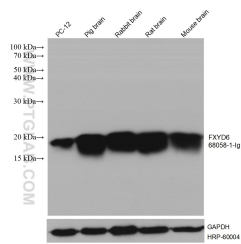
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

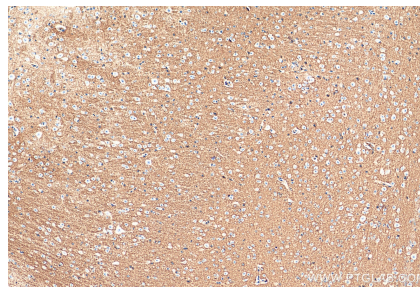
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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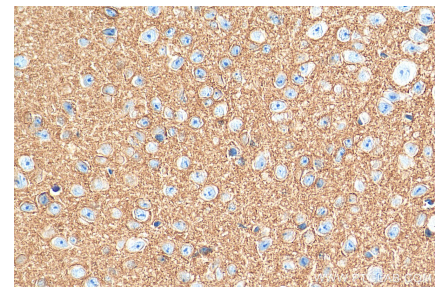
Selected Validation Data



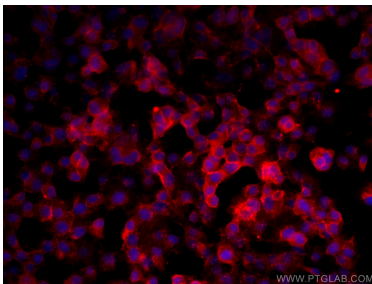
Various lysates were subjected to SDS PAGE followed by western blot with 68058-1-Ig (FXYD6 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



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 Goat Anti-Mouse IgG(H+L).