

# FXYP6 Monoclonal antibody

Catalog Number: 68058-1-Ig

## Basic Information

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

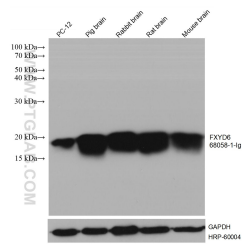
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

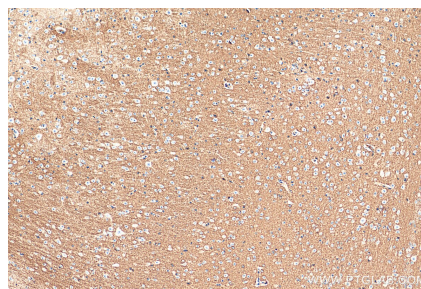
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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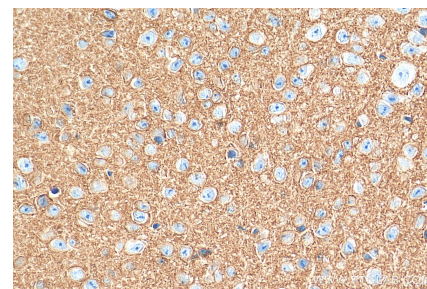
## Selected Validation Data



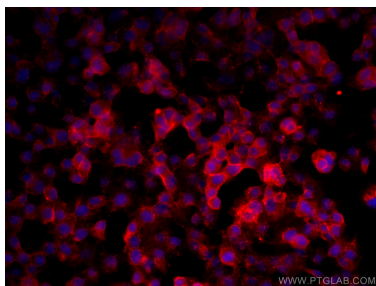
Various lysates were subjected to SDS PAGE followed by western blot with 68058-1-Ig (FXYD6 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



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).