

For Research Use Only

TMEM50B Polyclonal antibody

Catalog Number: 15941-1-AP



Basic Information

Catalog Number: 15941-1-AP	GenBank Accession Number: BC000569	Purification Method: Antigen affinity purification
Size: 500 µg/ml	GeneID (NCBI): 757	Recommended Dilutions: WB 1:300-1:1000 IHC 1:50-1:500
Source: Rabbit	UNIPROT ID: P56557	
Isotype: IgG	Full Name: transmembrane protein 50B	
Immunogen Catalog Number: AG8220	Calculated MW: 15 kDa	
	Observed MW: 14 kDa, 30 kDa, 50 kDa	

Applications

Tested Applications: IHC, WB, ELISA	Positive Controls: WB : mouse testis tissue, mouse heart tissue IHC : mouse brain tissue,
Species Specificity: human, mouse, rat	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

Background Information

TMEM50B, originally referred to as C21orf4, is a predicted transmembrane protein, estimated to contain four transmembrane-spanning domains with both the carboxy- and amino-terminals being cytoplasmic (PMID: 10077530; 18541381). Human TMEM50B shares sequence homologies of around 90-100% with mouse and rat Tmem50b. In a Down syndrome mouse model, Ts1Cje, Tmem50b is shown to be one of the few genes significantly over-expressed during cerebellar development (PMID: 15590701). It has been reported that rodent Tmem50b is a developmentally-regulated intracellular ER and Golgi apparatus membrane protein that may prove important for correct brain development through functions associated with precursor cells and glia (PMID: 18541381). TMEM50B can exist as a dimer and a trimer conformation (PMID: 18541381).

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

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

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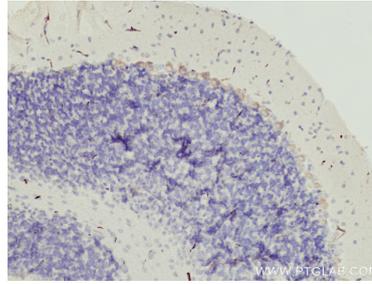
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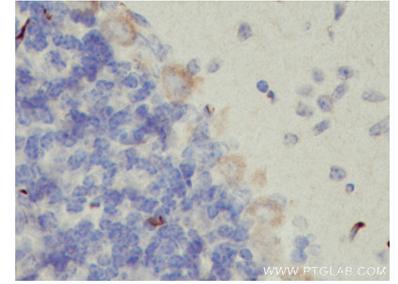
Selected Validation Data



mouse testis tissue were subjected to SDS PAGE followed by western blot with 15941-1-AP (TMEM50B antibody) at dilution of 1:200 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 15941-1-AP (TMEM50B antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 15941-1-AP (TMEM50B antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).