

For Research Use Only

# TMEM50B Polyclonal antibody

Catalog Number: 15941-1-AP



## Basic Information

<b>Catalog Number:</b> 15941-1-AP	<b>GenBank Accession Number:</b> BC000569	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 133 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 757	<b>Recommended Dilutions:</b> WB 1:300-1:1000 IHC 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P56557	
<b>Isotype:</b> IgG	<b>Full Name:</b> transmembrane protein 50B	
<b>Immunogen Catalog Number:</b> AG8220	<b>Calculated MW:</b> 15 kDa	
	<b>Observed MW:</b> 14 kDa, 30 kDa, 50 kDa	

## Applications

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

## 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

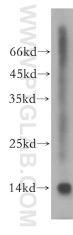
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

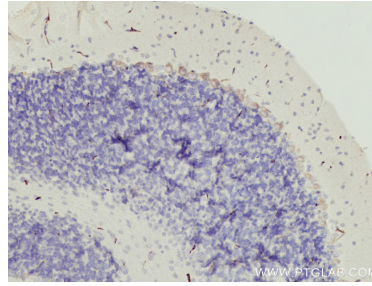
For technical support and original validation data for this product please contact:  
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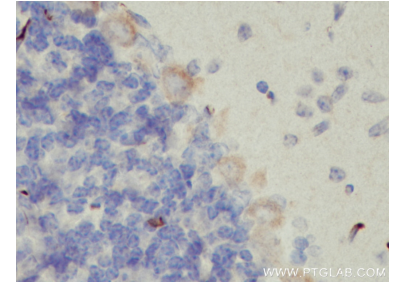
## Selected Validation Data



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).