

For Research Use Only

# CYP46A1 Monoclonal antibody, PBS Only



Catalog Number: 68576-1-PBS

## Basic Information

<b>Catalog Number:</b> 68576-1-PBS	<b>GenBank Accession Number:</b> BC022539	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug , Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 10858	<b>CloneNo.:</b> 1E10D3
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q9Y6A2	
<b>Isotype:</b> IgG2b	<b>Full Name:</b> cytochrome P450, family 46, subfamily A, polypeptide 1	
<b>Immunogen Catalog Number:</b> AG16786	<b>Calculated MW:</b> 500 aa, 57 kDa	
	<b>Observed MW:</b> 57 kDa	

## Applications

**Tested Applications:**  
WB, IHC, Indirect ELISA

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

## Background Information

Cytochrome P450 46A1 (CYP46A1), also named as CYP46, P450 46A1, CH24H and Cholesterol 24-hydroxylase, belongs to the cytochrome P450 family. CYP46A1 is a central nervous system-specific enzyme, and can freely cross the blood-brain barrier and be degraded in the liver. It is involved in the turnover of cholesterol. It converts cholesterol into 24S-hydroxycholesterol and, to a lesser extent, 25-hydroxycholesterol. CYP46A1 is significantly upregulated in hepatic lymphomyeloid cells compared with ESCs. (PMID:20039312)

## Storage

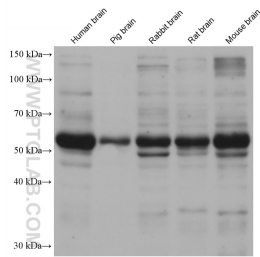
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS Only

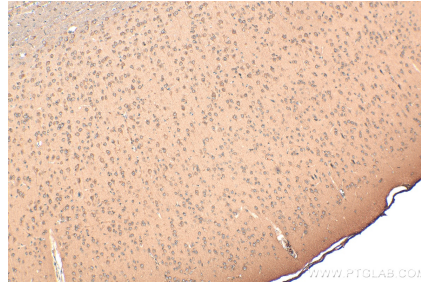
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)      E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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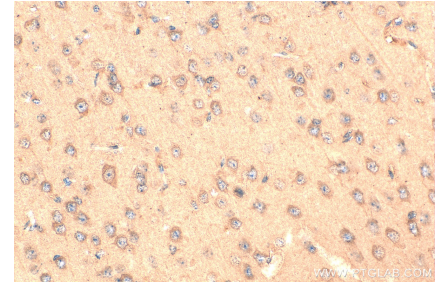
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68576-1-Ig (CYP46A1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 68576-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 68576-1-Ig (CYP46A1 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 68576-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 68576-1-Ig (CYP46A1 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 68576-1-PBS in a different storage buffer formulation.