

For Research Use Only

CYP46A1 Monoclonal antibody

Catalog Number: 68576-1-Ig



Basic Information

Catalog Number:

68576-1-Ig

Size:

1000 µg/ml

Source:

Mouse

Isotype:

IgG2b

Immunogen Catalog Number:

AG16786

GenBank Accession Number:

BC022539

GeneID (NCBI):

10858

UNIPROT ID:

Q9Y6A2

Full Name:

cytochrome P450, family 46, subfamily A, polypeptide 1

Calculated MW:

500 aa, 57 kDa

Observed MW:

57 kDa

Purification Method:

Protein A purification

CloneNo.:

1E10D3

Recommended Dilutions:

WB 1:5000-1:20000

IHC 1:250-1:1000

Applications

Tested Applications:

IHC, WB, ELISA

Species Specificity:

Human, Mouse, Rat, Rabbit, Pig

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: human brain tissue, pig brain tissue, rabbit brain tissue, rat brain tissue, mouse brain tissue

IHC: mouse brain tissue,

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 -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:

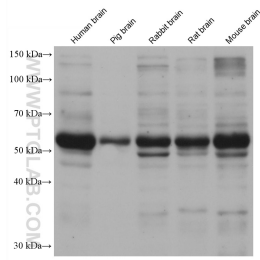
T: 4006900926

E: Proteintech-CN@ptglab.com

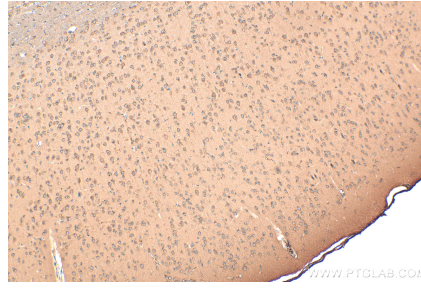
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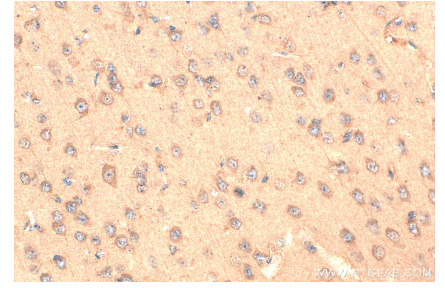
Selected Validation Data



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.



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).



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).