

For Research Use Only

CYP46A1 Polyclonal antibody

Catalog Number: 12486-1-AP

14 Publications



Basic Information

Catalog Number:

12486-1-AP

Size:

150ul, Concentration: 350 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG3116

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:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:4000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

IF-P 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF-P, IP, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

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

Positive Controls:

WB : mouse brain tissue, rat brain tissue

IP : mouse brain tissue,

IHC : mouse brain tissue,

IF-P : 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)

Notable Publications

Author	Pubmed ID	Journal	Application
Makoto Ishikawa	27653972	Sci Rep	IF
Daniel N Mitroi	31535451	EMBO Rep	WB
Shinkichi Kosaka	35367370	J Steroid Biochem Mol Biol	IHC

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

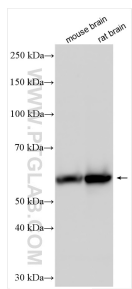
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

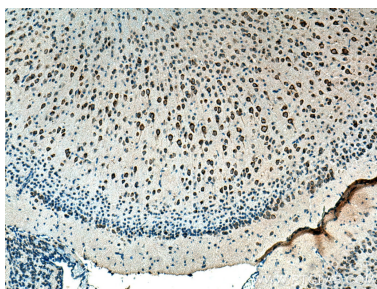
E: proteintech@ptglab.com
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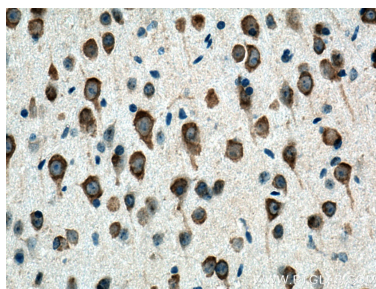
Selected Validation Data



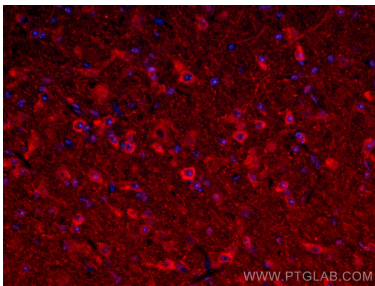
Various lysates were subjected to SDS PAGE followed by western blot with 12486-1-AP (CYP46A1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



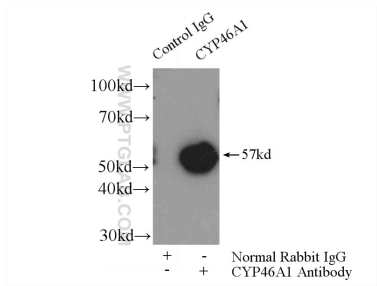
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 12486-1-AP (CYP46A1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 12486-1-AP (CYP46A1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse brain tissue using CYP46A1 antibody (12486-1-AP) at dilution of 1:200 and CoraLite®594-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-4). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-CYP46A1 (IP:12486-1-AP, 4ug; Detection:12486-1-AP 1:500) with mouse brain tissue lysate 3200ug.