For Research Use Only

CYP46A1 Polyclonal antibody

Catalog Number:12486-1-AP 14 Publications

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Basic Information

Catalog Number:
12486-1-AP

Size:
150ul , Concentration: 350 µg/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 1:500-1:1000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:50-1:500

Applications

Tested Applications:
WB, IP, IHC, ELISA

Cited Applications:
WB, IF, IHC

Species Specificity:
human, mouse, rat

Cited Species:
human, rat, mouse

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,

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

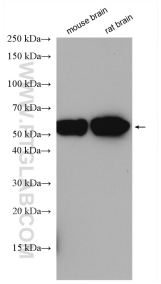
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

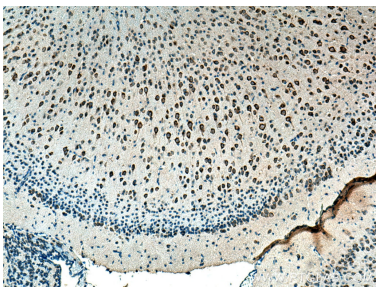
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

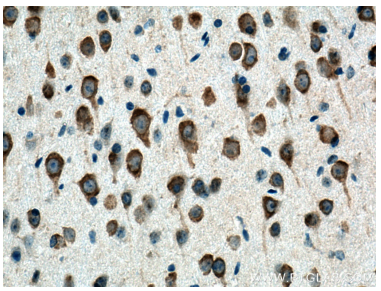
Selected Validation Data



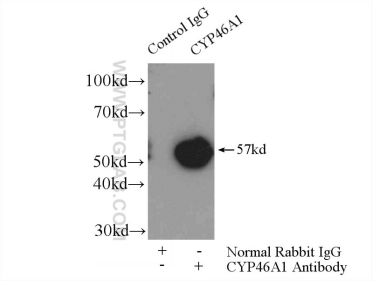
Various lysates were subjected to SDS PAGE followed by western blot with 12486-1-AP (CYP46A1 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



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).



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