

For Research Use Only

# QDPR Polyclonal antibody

Catalog Number: 14908-1-AP

5 Publications



## Basic Information

### Catalog Number:

14908-1-AP

### Size:

150ul, Concentration: 500 ug/ml by Nanodrop and 333 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG6705

### GenBank Accession Number:

BC000576

### GeneID (NCBI):

5860

### UNIPROT ID:

P09417

### Full Name:

quinoid dihydropteridine reductase

### Calculated MW:

26 kDa

### Observed MW:

28-30 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2000

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

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse

### Positive Controls:

WB : mouse liver tissue, human liver tissue

IP : mouse liver tissue,

IHC : mouse brain tissue,

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

Dihydropteridine reductase (QDPR), also named as DHPR and HDHPR, is an essential enzyme in the hydroxylating system of the aromatic amino acids, since it catalyses the regeneration of tetrahydrobiopterin (BH4), the natural cofactor of phenylalanine, tyrosine, and tryptophan hydroxylases, from the quinoid-dihydrobiopterin produced in these coupled reactions (PMID:8326489). The QDPR protein is active as a dimer, with a subunit Mr of 26 kDa (PMID:7627180). This protein belongs to the short-chain dehydrogenases/reductases (SDR) family. Defects in QDPR are the cause of BH4-deficient hyperphenylalaninemia type C (HPABH4C) (PMID:11153907).

## Notable Publications

Author	Pubmed ID	Journal	Application
Natasha L Pacheco	29090078	Mol Autism	WB
Zhiguo Li	34643893	Genes Genomics	WB
Kalina Wiatr	34220448	Front Mol Neurosci	WB

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol

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)

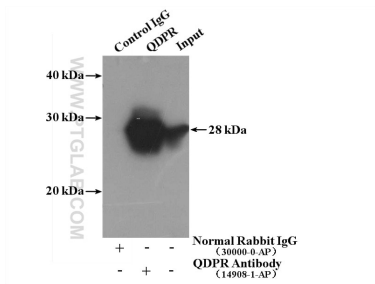
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

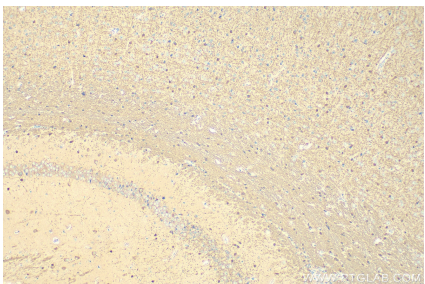
Selected Validation Data



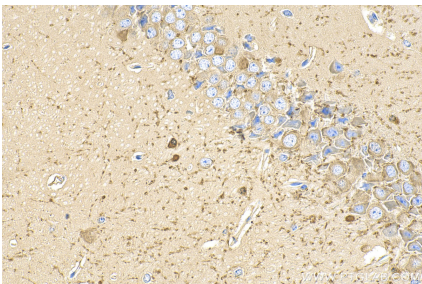
mouse liver tissue were subjected to SDS PAGE followed by western blot with 14908-1-AP (QDPR antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



IP result of anti-QDPR (IP:14908-1-AP, 4ug; Detection:14908-1-AP 1:1000) with mouse liver tissue lysate 4000ug.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 14908-1-AP (QDPR 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 14908-1-AP (QDPR antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).