

For Research Use Only

QDPR Polyclonal antibody

Catalog Number: 14908-1-AP

5 Publications



Basic Information

Catalog Number:

14908-1-AP

Concentration:

500 µg/ml

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 µg 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

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 liver tissue, human liver tissue

IP : mouse liver tissue,

IHC : mouse brain tissue,

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

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

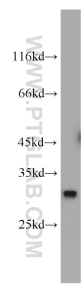
T: 4006900926

E: Proteintech-CN@ptglab.com

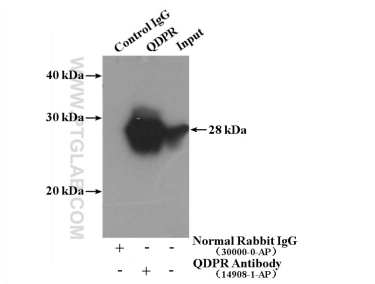
W: ptgcn.com

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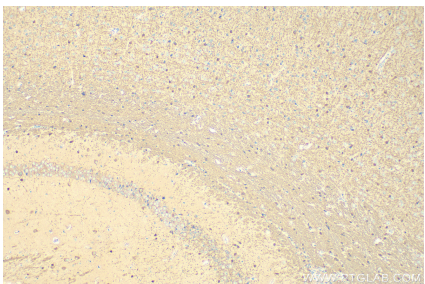
Selected Validation Data



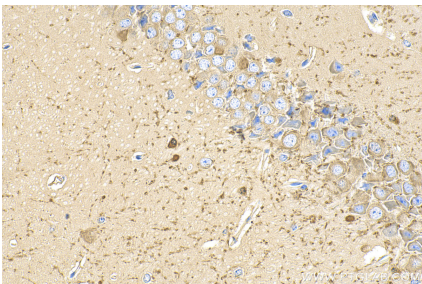
mouse liver tissue were subjected to SDS PAGE followed by western blot with 14908-1-AP (QDPR antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



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).