

For Research Use Only

QDPR Polyclonal antibody

Catalog Number: 14908-1-AP **5 Publications**



Basic Information

Catalog Number: 14908-1-AP	GenBank Accession Number: BC000576	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 500 ug/ml by Nanodrop and 333 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 5860	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
Source: Rabbit	UNIPROT ID: P09417	
Isotype: IgG	Full Name: quinoid dihydropteridine reductase	
Immunogen Catalog Number: AG6705	Calculated MW: 26 kDa	
	Observed MW: 28-30 kDa	

Applications

Tested Applications: WB, IP, IHC, ELISA	Positive Controls: WB : mouse liver tissue, human liver tissue IP : mouse liver tissue, IHC : mouse brain tissue,
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

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

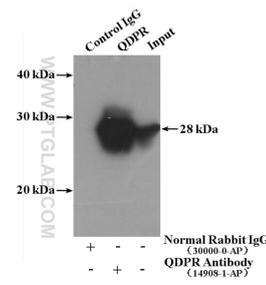
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com W: ptglab.com

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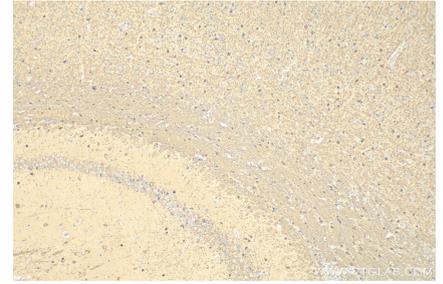
Selected Validation Data



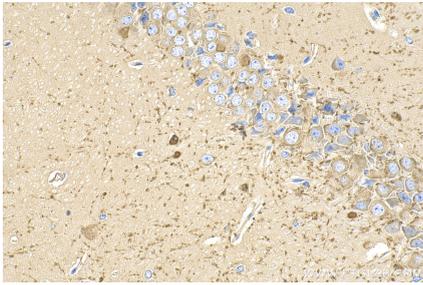
mouse liver tissue were subjected to SDS PAGE followed by western blot with 14908-1-AP (QDPR antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



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).