

For Research Use Only

TXNRD2 Polyclonal antibody

Catalog Number: 16360-1-AP

13 Publications



Basic Information

Catalog Number:

16360-1-AP

Size:

150ul, Concentration: 600 ug/ml by Nanodrop and 267 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG8367

GenBank Accession Number:

BC007489

GeneID (NCBI):

10587

UNIPROT ID:

Q9NNW7

Full Name:

thioredoxin reductase 2

Calculated MW:

524 aa, 56 kDa

Observed MW:

54 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:6000

IHC 1:50-1:500

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat, pig

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: HepG2 cells, rat liver tissue, MCF-7 cells, HeLa cells

IHC: human liver tissue,

Background Information

Human mitochondrial thioredoxin reductase (TXNRD2) is a selenocysteine-containing enzyme essential for mitochondrial oxygen radical scavenging. Three mammalian thioredoxin reductases exist; a cytosolic (TXNRD1), a mitochondrial (TXNRD2), and a testis-specific thioredoxin reductase (TXNRD3). (PMID: 21247928, PMID: 26199228)

Notable Publications

Author	Pubmed ID	Journal	Application
B Chellan	33122797	Sci Rep	WB
Caitlin E. Miller	36358489	Antioxidants (Basel)	WB
Tai-Jung Lee	36336122	Arch Biochem Biophys	WB

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

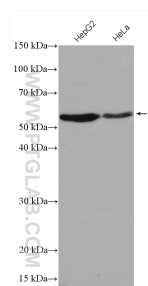
For technical support and original validation data for this product please contact:

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

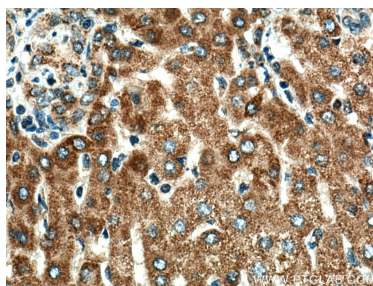
E: proteintech@ptglab.com
W: ptglab.com

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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 16360-1-AP (TXNRD2 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 16360-1-AP (TXNRD2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).