

TXNRD2 Antibody

Catalog No: #32885



Package Size: #32885-1 50ul #32885-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

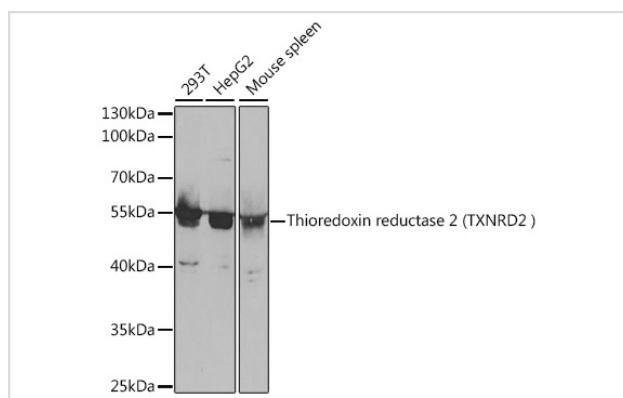
Description

Product Name	TXNRD2 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Isotype	IgG
Purification	Affinity purification
Applications	WB,IHC,IF
Species Reactivity	Human;Mouse
Specificity	The antibody detects endogenous level of total TXNRD2 protein.
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant fusion protein of human Thioredoxin reductase 2 (Thioredoxin reductase 2 (TXNRD2)) (NP_006431.2).
Conjugates	Unconjugated
Target Name	TXNRD2
Other Names	TXNRD2;SELZ;TR;TR-BETA;TR3;TRXR2
Accession No.	Uniprot:Q9NNW7GeneID:10587
SDS-PAGE MW	56kDa
Concentration	1.0mg/ml
Formulation	PBS with 0.02% sodium azide,50% glycerol,pH7.3.
Storage	Store at -20°C. Avoid freeze / thaw cycles.

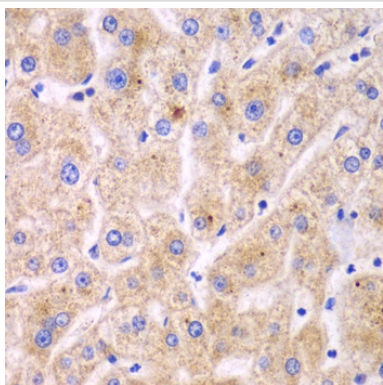
Application Details

WB□1:500 - 1:2000IHC□1:50 - 1:200IF□1:50 - 1:200

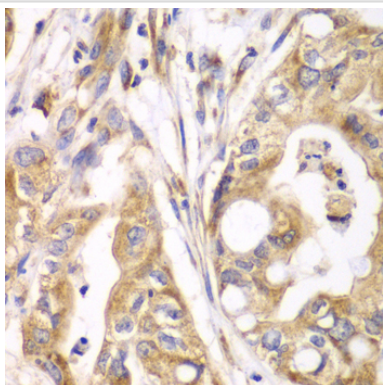
Images



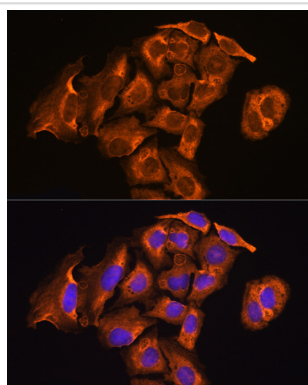
Western blot analysis of extracts of various cell lines, using Thioredoxin reductase 2 (Thioredoxin reductase 2 (TXNRD2)) antibody.



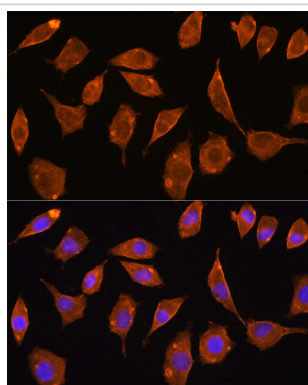
Immunohistochemistry of paraffin-embedded human liver damage using Thioredoxin reductase 2 (Thioredoxin reductase 2 (TXNRD2)) antibody.



Immunohistochemistry of paraffin-embedded human liver cancer using Thioredoxin reductase 2 (Thioredoxin reductase 2 (TXNRD2)) antibody.



Immunofluorescence analysis of U2OS cells using Thioredoxin reductase 2 (TXNRD2) antibody.



Immunofluorescence analysis of L929 cells using Thioredoxin reductase 2 (TXNRD2) antibody.

Background

The protein encoded by this gene belongs to the pyridine nucleotide-disulfide oxidoreductase family, and is a member of the thioredoxin (Trx) system. Three thioredoxin reductase (TrxR) isozymes are found in mammals. TrxRs are selenocysteine-containing flavoenzymes, which reduce thioredoxins, as well as other substrates, and play a key role in redox homeostasis. This gene encodes a mitochondrial form important for scavenging reactive oxygen species in mitochondria. It functions as a homodimer containing FAD, and selenocysteine (Sec) at the active site. Sec is encoded by UGA codon that normally signals translation termination. The 3' UTRs of selenoprotein mRNAs contain a conserved stem-loop structure, the Sec insertion sequence (SECIS) element, which is necessary for the recognition of UGA as a Sec codon rather than as a stop signal. Alternatively spliced transcript variants encoding different isoforms, including a few localized in the cytosol and some lacking the C-terminal Sec residue, have been found for this

gene.

Published Papers

el at., The effect of exposure time and concentration of airborne PM2.5 on lung Injury In mice: A transcriptome analysis. In Redox Biol on 2019 Sep by Wang H, Shen X et al..PMID:31279222, , (2019)

[PMID:31279222](#)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.