

A5490

Leader in Biomolecular Solutions for Life Science



Thioredoxin reductase 2 (TXNRD2) Rabbit pAb

Catalog No.: A5490

4 Publications

Basic Information

Observed MW

56kDa

Calculated MW

57kDa

Category

Polyclonal Antibody

Applications

WB,IHC-P,IF/ICC,ELISA

Cross-Reactivity

Human,Mouse

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.

Recommended Dilutions

| | |
|--------|---|
| WB | 1:500 - 1:2000 |
| IHC-P | 1:50 - 1:200 |
| IF/ICC | 1:50 - 1:200 |
| ELISA | Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements. |

Contact



www.abclonal.com

Immunogen Information

Gene ID
10587

Swiss Prot
Q9NNW7

Immunogen

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

Synonyms

TR; TR3; SELZ; GCCD5; TRXR2; TR-BETA; Thioredoxin reductase 2 (TXNRD2)

Product Information

Source
Rabbit

Isotype
IgG

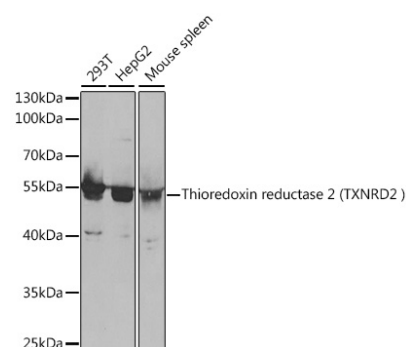
Purification
Affinity purification

Storage

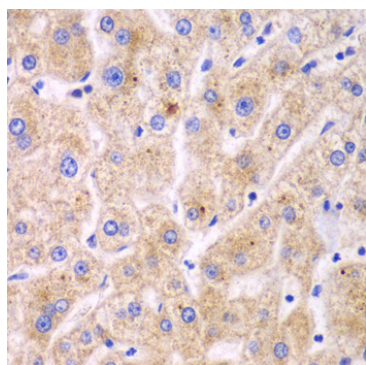
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

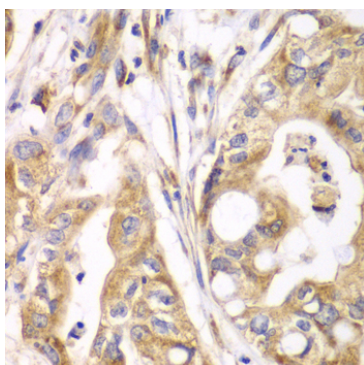
Validation Data



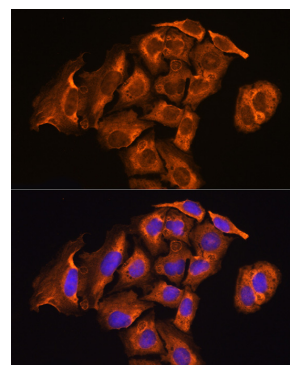
Western blot analysis of various lysates using Thioredoxin reductase 2 (TXNRD2) Rabbit pAb (A5490) at 1:1000 dilution.
 Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
 Lysates/proteins: 25µg per lane.
 Blocking buffer: 3% nonfat dry milk in TBST.
 Detection: ECL Basic Kit (RM00020).
 Exposure time: 90s.



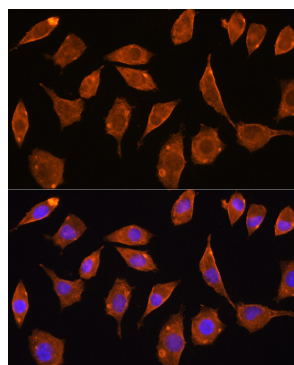
Immunohistochemistry analysis of paraffin-embedded Human liver damage using Thioredoxin reductase 2 (Thioredoxin reductase 2 (TXNRD2)) antibody (A5490) at dilution of 1:100 (40x lens). Microwave antigen retrieval performed with 0.01M PBS Buffer (pH 7.2) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human liver cancer using Thioredoxin reductase 2 (Thioredoxin reductase 2 (TXNRD2)) antibody (A5490) at dilution of 1:100 (40x lens). Microwave antigen retrieval performed with 0.01M PBS Buffer (pH 7.2) prior to IHC staining.



Immunofluorescence analysis of U2OS cells using Thioredoxin reductase 2 (TXNRD2) Rabbit pAb (A5490) at dilution of 1:100. Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of L929 cells using Thioredoxin reductase 2 (TXNRD2) Rabbit pAb (A5490) at dilution of 1:100. Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.