

# TXNRD2 Rabbit Polyclonal Antibody



CAB5490

## Product Information

### Size:

20uL, 50uL, 100uL, 200uL

### Observed MW:

56kDa

### Calculated MW:

30kDa/46kDa/53kDa/56kDa

### Applications:

WB IHC

### Reactivity:

Human, Mouse

## Antibody Information

### Recommended dilutions:

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

### Source:

Rabbit

### Isotype:

IgG

### Purification:

Affinity purification

## Protein 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.

## Immunogen information

### Gene ID:

10587

### Uniprot

Q9NNW7

### Synonyms:

TXNRD2; SELZ; TR; TR-BETA; TR3; TRXR2

### Immunogen:

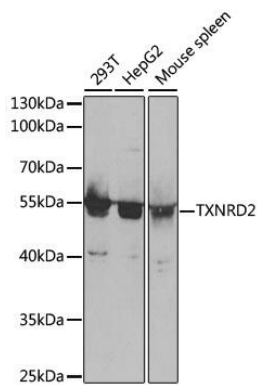
Recombinant fusion protein containing a sequence corresponding to amino acids 100-310 of human TXNRD2 (NP\_006431.2).

### Storage:

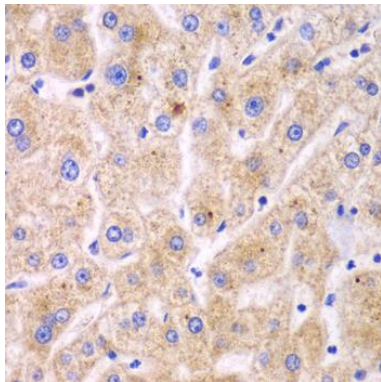
Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

## Product Images

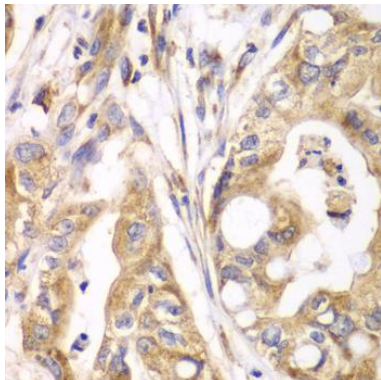
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Western blot analysis of extracts of various cell lines, using TXNRD2 antibody (CAB5490) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (CABS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (CABM00020). Exposure time: 90s.



Immunohistochemistry of paraffin-embedded human liver damage using TXNRD2 antibody (CAB5490) at dilution of 1:100 (40x lens).



Immunohistochemistry of paraffin-embedded human liver cancer using TXNRD2 antibody (CAB5490) at dilution of 1:100 (40x lens).