

A8884

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## Thioredoxin reductase 2 (TXNRD2 ) Rabbit mAb

Catalog No.: A8884

Recombinant

1 Publications

### Basic Information

#### Observed MW

57kDa

#### Calculated MW

57kDa

#### Category

SMab Recombinant Monoclonal Antibody

#### Applications

WB, ELISA

#### Cross-Reactivity

Human, Mouse, Rat

#### CloneNo number

ARC1339

### 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

### Immunogen Information

#### Gene ID

10587

#### Swiss Prot

Q9NNW7

#### Immunogen

A synthetic peptide corresponding to a sequence within amino acids 1-100 of human Thioredoxin reductase 2 (TXNRD2 ) (NP\_006431.2).

#### Synonyms

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

### Contact



[www.abclonal.com](http://www.abclonal.com)

### Product Information

#### Source

Rabbit

#### Isotype

IgG

#### Purification

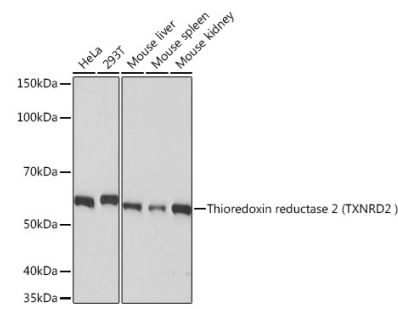
Affinity purification

#### Storage

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

Buffer: PBS with 0.02% sodium azide, 0.05% BSA, 50% glycerol, pH7.3.

# Validation Data



Western blot analysis of extracts of various cell lines, using Thioredoxin reductase 2 (Thioredoxin reductase 2 (TXNRD2 ) ) Rabbit mAb (A8884) at 1:1000 dilution.  
Secondary antibody: HRP 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: 10s.