

# TXNRD2 monoclonal antibody (M01), clone 3A7-F1

Catalog # H00010587-M01

Size 100 ug

## Specification

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Description     | Mouse monoclonal antibody raised against a full length recombinant TXNRD2.                                                                                                                                                                                                                                                                                                                                                                  |
| Immunogen               | TXNRD2 (AAH07489, 1 a.a. ~ 428 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.                                                                                                                                                                                                                                                                                                                        |
| Sequence                | MHQAALLGGLIQDAPNYGWEVAQPVPDWRKMAEAVQNHVKSLNWGHRVQLQDRKVKYFNIKASFVDEHTVCGVAKGGKEILLSADHIIATGGRPRYPTHIEGALEYGITSDDIFWLKESPGKTLVVGASYVALECAGFLTGIGLDTTIMMRSIPLRGFDQQMSSMVEIHMASHGTRFLRGCAPSRVRRLPDGQLRVTWEDSTTGKEDTGTFTVLWAIGRVPDTRSLNLEKAGVDTSPDTQKILVDSREATSVPHIYAIGDVVEGRPELTPIAIMAGRLLVQRLFGGSSDLMDYDNVPTTVFTPLEYGCVGLSEEEAVARHGQEHVEVYHAHYKPLEFTVAGRDASQC YVKMVCLREPPQLVLGLHFLGPNAGEVTQGFALGIKCGASYAQVMRTVGIIHPTCSEEVVKLRISKRSGLDPTVTGC*G |
| Host                    | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Reactivity              | Human                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Isotype                 | IgG2a Kappa                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Quality Control Testing | Antibody Reactive Against Recombinant Protein.                                                                                                                                                                                                                                                                                                                                                                                              |
| Storage Buffer          | In 1x PBS, pH 7.4                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Storage Instruction     | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.                                                                                                                                                                                                                                                                                                                                                                    |

## Applications

- ELISA

## Gene Info — TXNRD2

Entrez GeneID [10587](#)

GeneBank Accession# [BC007489](#)

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|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protein Accession# | <a href="#">AAH07489</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Gene Name          | TXNRD2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Gene Alias         | SELZ, TR, TR-BETA, TR3, TRXR2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Gene Description   | thioredoxin reductase 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Omim ID            | <a href="#">606448</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Gene Ontology      | <a href="#">Hyperlink</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Gene Summary       | Thioredoxin reductase (TR) is a dimeric NADPH-dependent FAD containing enzyme that catalyzes the reduction of the active site disulfide of thioredoxin and other substrates. TR is a member of a family of pyridine nucleotide-disulfide oxidoreductases and is a key enzyme in the regulation of the intracellular redox environment. Three thioredoxin reductase genes have been found that encode selenocysteine containing proteins. This gene partially overlaps the COMT gene on chromosome 22. [provided by RefSeq] |
| Other Designations | OTTHUMP00000195708 selenoprotein Z thioredoxin reductase 3 thioredoxin reductase beta                                                                                                                                                                                                                                                                                                                                                                                                                                      |

## Pathway

- [Pyrimidine metabolism](#)

## Disease

- [Alzheimer disease](#)
- [Arsenic Poisoning](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Cognition](#)
- [Colorectal Neoplasms](#)
- [Diabetes Mellitus](#)

- [DNA Damage](#)
- [Drug Toxicity](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Hypercholesterolemia](#)
- [Kidney Failure](#)
- [Osteoarthritis](#)
- [Stomach Neoplasms](#)
- [Urinary Bladder Neoplasms](#)