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TXNRD2 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant TXNRD2.
Catalog # AT4422a

Specification

TXNRD2 Antibody (monoclonal) (M01) - Product Information

Application	**E**
Primary Accession	Q9NNW7
Other Accession	BC007489
Reactivity	**Human**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG2a Kappa**
Calculated MW	**56507**

TXNRD2 Antibody (monoclonal) (M01) - Additional Information

Gene ID 10587

Other Names
Thioredoxin reductase 2, mitochondrial, Selenoprotein Z, SelZ, TR-beta, Thioredoxin reductase TR3, TXNRD2, KIAA1652, TRXR2

Target/Specificity
TXNRD2 (AAH07489, 1 a.a. ~ 428 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution
E~~N/A

Format
Clear, colorless solution in phosphate buffered saline, pH 7.2 .

Storage
Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions
TXNRD2 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

TXNRD2 Antibody (monoclonal) (M01) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot

- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

TXNRD2 Antibody (monoclonal) (M01) - Images

TXNRD2 Antibody (monoclonal) (M01) - Background

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.

TXNRD2 Antibody (monoclonal) (M01) - References

Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.Physiogenomic analysis of statin-treated patients: domain-specific counter effects within the ACACB gene on low-density lipoprotein cholesterol? Rua?o G, et al. Pharmacogenomics, 2010 Jul. PMID 20602615.Genetic variants in selenoprotein genes increase risk of colorectal cancer. M?plan C, et al. Carcinogenesis, 2010 Jun. PMID 20378690.Association study between polymorphisms in selenoprotein genes and susceptibility to Kashin-Beck disease. Xiong YM, et al. Osteoarthritis Cartilage, 2010 Jun. PMID 20178852.Gene-centric association signals for lipids and apolipoproteins identified via the HumanCVD BeadChip. Talmud PJ, et al. Am J Hum Genet, 2009 Nov. PMID 19913121.