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TXNRD2 Antibody (monoclonal) (M01)

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

Product Information

Application	E
Primary Accession	Q9NNW7
Other Accession	BC007489
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	3A7-F1
Calculated MW	56507

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.

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.

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.