10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

TXN Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant TXN.
Catalog # AT4414a

Product Information

Application	WB, IF, IP, E
Primary Accession	P10599
Other Accession	BC003377
Reactivity	Human
Host	Mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	2A7
Calculated MW	11737

Additional Information

Gene ID	7295
Other Names	Thioredoxin, Trx, ATL-derived factor, ADF, Surface-associated sulphydryl protein, SASP, TXN, TRDX, TRX, TRX1
Target/Specificity	TXN (AAH03377, 1 a.a. ~ 105 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IF~~1:50~200 IP~~N/A 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	TXN Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

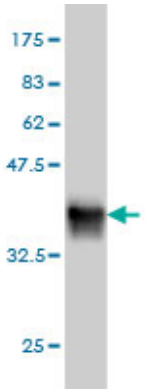
Thioredoxin is a 12-kD oxidoreductase enzyme containing a dithiol-disulfide active site. It is ubiquitous and found in many organisms from plants and bacteria to mammals. Multiple in vitro substrates for thioredoxin have been identified, including ribonuclease, choriogonadotropins, coagulation factors, glucocorticoid receptor, and insulin. Reduction of insulin is classically used as an activity test.

References

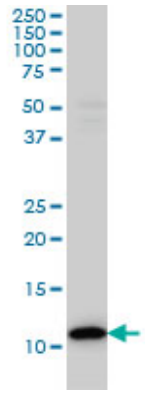
Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes

Care, 2010 Jul 13. PMID 20628086.Thioredoxin-1 phosphorylated at T100 is needed for its anti-apoptotic activity in HepG2 cancer cells. Chen X, et al. Life Sci, 2010 Aug 14. PMID 20619274.Mammalian thioredoxin reductase 1: roles in redox homoeostasis and characterization of cellular targets. Turanov AA, et al. Biochem J, 2010 Sep 1. PMID 20536427.Common polymorphisms in ITGA2, PON1 and THBS2 are associated with coronary atherosclerosis in a candidate gene association study of the Chinese Han population. Wang Y, et al. J Hum Genet, 2010 Aug. PMID 20485444.Serum C-reactive protein and thioredoxin levels in subjects with mildly reduced glomerular filtration rate. Tsuchikura S, et al. BMC Nephrol, 2010 Apr 27. PMID 20423474.

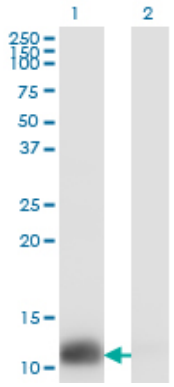
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (37.29 KDa) .

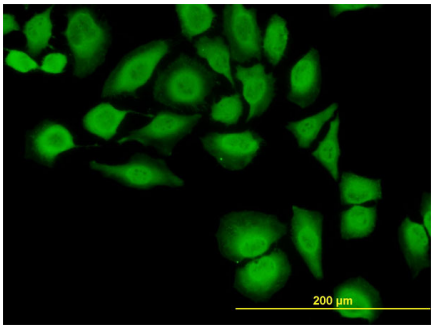


TXN monoclonal antibody (M01), clone 2A7 Western Blot analysis of TXN expression in HeLa ((Cat # AT4414a)

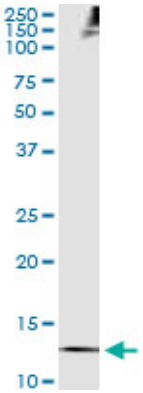


Western Blot analysis of TXN expression in transfected 293T cell line by TXN monoclonal antibody (M01), clone 2A7.

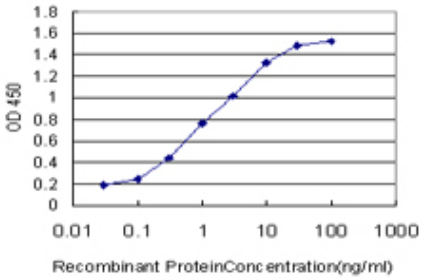
Lane 1: TXN transfected lysate(11.7 KDa).
Lane 2: Non-transfected lysate.



Immunofluorescence of monoclonal antibody to TXN on HeLa cell. [antibody concentration 10 ug/ml]



Immunoprecipitation of TXN transfected lysate using anti-TXN monoclonal antibody and Protein A Magnetic Bead (U0007), and immunoblotted with TXN MaxPab rabbit polyclonal antibody.



Detection limit for recombinant GST tagged TXN is approximately 0.03ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.