

Mouse anti-Human Thioredoxin2 Monoclonal Antibody | anti-TXN2 antibody

Thioredoxin2 antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA48245	Mouse	Human	Immunofluorescence, Immunocytochemistry, Flow Cytometry, Functional Assay, Western Blot, ELISA

PRODUCT SYNONYMS

Thioredoxin2; Monoclonal Antibody; Thioredoxin2 antibody; MTRX; TRX2; MT-TRX; mitochondrial thioredoxin; thioredoxin 2 precursor; Thioredoxin mitochondrial; TRX 2; TXN 2; TXN2; Thioredoxin-2; anti-TXN2 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2b, k
Clone Number	AT1B1
Purity/Purification	By protein-A affinity chromatography
Form/Format	Liquid. In phosphate-buffered saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol.
Concentration	1 mg/ml (varies by lot)
Sequence Length	166
Applicable Applications for anti-TXN2 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), FCM/FACS (Flow Cytometry), WB (Western Blot), ELISA
Antigen Species	Human
Immunogen	Recombinant human Thioredoxin2 (60-166aa) purified from E. coli
Clone Note	Anti-human TXN2 mAb, clone AT1B1, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human TXN2 protein.
Preparation and Storage	Can be stored at 4 degree C. For long term storage, aliquot and store at -20 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



IF (Immunofluorescence)

ICC/IF analysis of TXN2 in HeLa cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human TXN2 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



WB (Western Blot)

The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human Thioredoxin2 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1 : HepG2 cell lysate Lane 2 : HeLa cell lysate Lane 3 : Raji cell lysate Lane 4 : K562 cell lysate Lane 5 : Jurkat cell lysate Lane 6 : A431 cell lysate Lane 7 : MCF7 cell lysate Lane 8 : THP1 cell lysate Recombinant protein (50ng) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human Thioredoxin2 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1 : Recombinant human Thioredoxin1 protein Lane 2 : Recombinant human Thioredoxin2 protein

ADDITIONAL INFORMATION

Related Product Information for anti-TXN2 antibody	Thioredoxin (Trx) is a low molecular weight redox protein. Trx contains a redox active disulfide/dithiol group within the conserved Cys-Gly-Pro-Cys active site. The Thioredoxin2 may play important roles in the regulation of the mitochondrial membrane potential and in protection against oxidant-induced apoptosis.
Product Categories/Family for anti-TXN2 antibody	Signal Transduction; Metabolism
References	Wang Z., et al. (2007) Rapid Commun Mass Spectrom. 21 (22): 3658-66.; Zhang H., et al. (2007) Arch Biochem biophys. 465 (1): 119-26.; Holmgren, A. (1979) Journal of Biological Chemistry. 254, 9627-9632.

NCBI AND UNIPROT INFORMATION

NCBI GI #	21361403
NCBI GeneID	25828
NCBI Accession #	NP_036605
NCBI GenBank Nucleotide #	NM_012473.3
UniProt Accession #	Q99757; Q5JZA0; Q6FH60; Q9UHZ9
Molecular Weight	18,383 Da
NCBI Official Full Name	thioredoxin, mitochondrial
NCBI Official Synonym Full Names	thioredoxin 2
NCBI Official Symbol	TXN2
NCBI Official Synonym Symbols	TXN; MTRX; TRX2; MT-TRX; COXPD29
NCBI Protein Information	thioredoxin, mitochondrial
UniProt Protein Name	Thioredoxin, mitochondrial
UniProt Gene Name	TXN2
UniProt Synonym Gene Names	TRX2; MTRX; Mt-Trx

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.