



Thioredoxin Monoclonal Antibody

Catalog No	YP-Ab-02340
Isotype	IgG
Reactivity	Human
Applications	WB;ELISA
Gene Name	TXN
Immunogen	Purified recombinant fusion protein with Thioredoxin tag.
Specificity	Thioredoxin Monoclonal Antibody detects endogenous levels of Thioredoxin protein.
Formulation	Ascitic fluid containing 0.03% sodium azide,0.5% BSA, 50%glycerol.
Source	Monoclonal, Mouse
Purification	Affinity purification
Dilution	Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	thioredoxin;TXN;ADF;ATL-derived factor;Hom s Trx;TRDX;TRX;TRX1;Surface-associated sulphhydryl protein;SASP
Observed Band	
Calculated Molecular Weight	
Cell Pathway	Nucleus . Cytoplasm . Secreted . Translocates from the cytoplasm into the nucleus after phorbol 12-myristate 13-acetate induction (PMA) (PubMed:9108029). Predominantly in the cytoplasm in non irradiated cells (PubMed:11118054). Radiation induces translocation of TRX from the cytoplasm to the nucleus (PubMed:11118054). Secreted by a leaderless secretory pathway (PubMed:1332947). .
Tissue Specificity	Brain,Cajal-Retzius cell,Cerebellum,Cervix,Epithelium,Fetal brain cortex,Hepatocyte,Lens,Ma
Function	function:ADF augments the expression of the interleukin-2 receptor TAC (IL2R/ P55).,function:Participates in various redox reactions through the reversible oxidation of its active center dithiol to a disulfide and catalyzes dithiol-disulfide exchange reactions. Plays a role in the reversible S-nitrosylation of cysteine residues in target proteins, and thereby contributes to the response to intracellular nitric oxide. Nitrosylates the active site Cys of CASP3 in response to



nitric oxide (NO), and thereby inhibits caspase-3 activity.,PTM:In the fully reduced protein, both Cys-69 and Cys-73 are nitrosylated in response to nitric oxide (NO). When two disulfide bonds are present in the protein, only Cys-73 is nitrosylated. Cys-73 can serve as donor for nitrosylation of target proteins., similarity:Belongs to the thioredoxin family.,similarity:Contains 1 thioredoxin domain.,subunit:Homodimer; di

Background

The protein encoded by this gene acts as a homodimer and is involved in many redox reactions. The encoded protein is active in the reversible S-nitrosylation of cysteines in certain proteins, which is part of the response to intracellular nitric oxide. This protein is found in the cytoplasm. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2011]

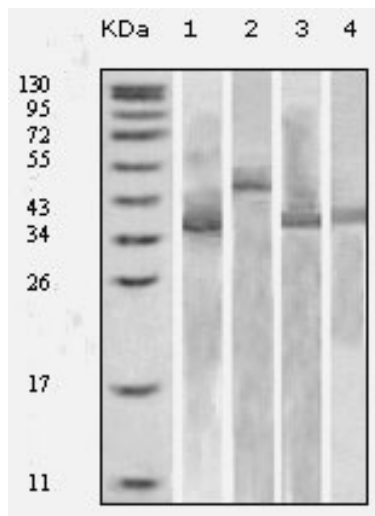
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis using Thioredoxin Monoclonal Antibody against various fusion protein with Thioredoxin tag.