

# Human Thioredoxin-related transmembrane protein 1 (TMX1) ELISA Kit

Catalog No: #EK6290

Orders: [order@signalwayantibody.com](mailto:order@signalwayantibody.com)

Package Size: #EK6290-1 48T #EK6290-2 96T

Support: [tech@signalwayantibody.com](mailto:tech@signalwayantibody.com)

## Description

Product Name	Human Thioredoxin-related transmembrane protein 1 (TMX1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	DKFZp564E1962; PDIA11; TMX; TXNDC; TXNDC1; protein disulfide isomerase family A; member 11 thioredoxin domain containing 1 thioredoxin domain-containing
Accession No.	Q0Z7W6
Uniprot	Q0Z7W6
GeneID	509037;
Storage	The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.  The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

## Application Details

Detect Range:Request Information

Sensitivity:Request Information

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

## Product Description

**Detection Method:**SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate TMX1 in samples. An antibody specific for TMX1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyTMX1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TMX1 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of TMX1 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**TXNDC1 is a thioredoxin (TXN)-related protein with disulfide reductase activity. The deduced 280-amino acid protein has a predicted molecular mass of 31.8 kD and contains an N-terminal signal sequence, a TRX-like domain with an active site sequence CPAC, and a transmembrane domain.

Northern blot analysis detected a 2.5-kb transcript in all tissues examined, with highest expression in kidney, liver, placenta, and lung. Confocal microscopy of intact HEK293 cells expressing TXNDC1 and Western analysis of subcellular fractions localized TXNDC1 primarily in the microsomal fraction in an endoplasmic reticulum (ER)-like staining pattern characterized by a diffuse network-like labeling of the cytoplasm and nuclear rim.

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Note: This product is for in vitro research use only