

Mouse Thioredoxin-Related Transmembrane Protein 4 (TMX4) ELISA Kit | TMX4 elisa kit

Mouse Thioredoxin-Related Transmembrane Protein 4 (TMX4) ELISA Kit

CATALOG #
AAA332151

REACTIVITY
Mouse

PRODUCT SYNONYMS

Thioredoxin-Related Transmembrane Protein 4 (TMX4); Mouse Thioredoxin-Related Transmembrane Protein 4 (TMX4) ELISA Kit; TMX4; DJ971N18.2; KIAA1162; PDIA14; TXNDC13; protein disulfide isomerase family A; member 14; thioredoxin domain containing 13; TMX4 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	Mouse Thioredoxin-related transmembrane protein 4 (TMX4) ELISA Kit has high sensitivity and excellent specificity for detection of Mouse TMX4. No significant cross-reactivity or interference between Mouse TMX4 and analogues was observed.
Sequence Length	335
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Mouse Thioredoxin-related transmembrane protein 4 (TMX4) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for TMX4 elisa kit	Description: This Mouse Thioredoxin-related transmembrane protein 4 (TMX4) ELISA Kit employs a two-site sandwich ELISA to quantitate TMX4 in samples. An antibody specific for TMX4 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any TMX4 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TMX4 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 TMX4 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: TMX4, a type I transmembrane protein, was localized to the ER and possessed a Trx-like domain that faced the ER lumen. A maleimide alkylation assay showed that a catalytic CXXC motif in the TMX4 Trx-like domain underwent changes in its redox state depending on cellular redox conditions, and, in the normal state, most of the endogenous TMX4 existed in the oxidized form. The redox potential of this domain indicated that TMX4 could work as a reductase in the environment of the ER. TMX4 had no effect on the acceleration of ER-associated degradation. Because TMX4 interacted with calnexin and ERp57 by co-immunoprecipitation assay, the role of TMX4 may be to enable protein folding in cooperation with these proteins consisting of folding complex in the ER.
--	--

NCBI AND UNIPROT INFORMATION

NCBI GI #	112817607
NCBI GeneID	52837
NCBI Accession #	NP_083424.1
NCBI GenBank Nucleotide #	NP_083424.1
UniProt Accession #	Q8C0L0
NCBI Official Full Name	thioredoxin-related transmembrane protein 4
NCBI Official Synonym Full Names	thioredoxin-related transmembrane protein 4
NCBI Official Symbol	Tmx4
NCBI Official Synonym Symbols	Txndc13; AI843224; AW046784; mKIAA1162; D2Bwg1356e; 2810417D04Rik; 4930500L08Rik
NCBI Protein Information	thioredoxin-related transmembrane protein 4
UniProt Protein Name	Thioredoxin-related transmembrane protein 4
UniProt Gene Name	Tmx4
UniProt Synonym Gene Names	D2Bwg1356e; Kiaa1162; Txndc13
UniProt Entry Name	TMX4_MOUSE

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/mouse-elisa-kits/thioredoxin-related-transmembrane-protein-4-tmx4/332151>