

Goat anti-TXNDC1 / TMX, biotinylated Antibody
Peptide-affinity purified goat antibody
Catalog # AF4350a

Specification

Goat anti-TXNDC1 / TMX, biotinylated Antibody - Product Information

Application	WB, Pep-ELISA
Primary Accession	Q9H3N1
Other Accession	NP_110382.3
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Calculated MW	31791

Goat anti-TXNDC1 / TMX, biotinylated Antibody - Additional Information

Gene ID 81542

Other Names

TMX1; thioredoxin-related transmembrane protein 1; PDIA11; TMX; TXNDC; TXNDC1; protein disulfide isomerase family A, member 11; thioredoxin domain containing 1; thioredoxin domain-containing protein 1; transmembrane Trx-related protein

Dilution

WB~~1:1000
Pep-ELISA~~N/A

Format

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin. Aliquot and store at -20°C. Minimize freezing and thawing.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Goat anti-TXNDC1 / TMX, biotinylated Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat anti-TXNDC1 / TMX, biotinylated Antibody - Protein Information

Name TMX1 {ECO:0000303|PubMed:37648867, ECO:0000312|HGNC:HGNC:15487}

Function

Thioredoxin domain-containing protein that participates in various redox reactions through the reversible oxidation of its active center dithiol to a disulfide and catalyze dithiol-disulfide exchange reactions (PubMed:<a href="http://www.uniprot.org/citations/11152479"

target="_blank">>11152479, PubMed:>37648867). Acts as a key inhibitor of the alternative triglyceride biosynthesis pathway by inhibiting the activity of TMEM68/DIESL at the endoplasmic reticulum, thereby restricting accumulation of triacylglycerol (PubMed:>37648867). The alternative triglyceride biosynthesis pathway mediates formation of triacylglycerol from diacylglycerol and membrane phospholipids (PubMed:>37648867). Acts as a protein disulfide isomerase by catalyzing formation or reduction of disulfide bonds (PubMed:>22228764, PubMed:>29932915). Specifically mediates formation of disulfide bonds of transmembrane proteins at the endoplasmic reticulum membrane (PubMed:>22228764). Involved in endoplasmic reticulum-associated degradation (ERAD) via its protein disulfide isomerase activity by acting on folding-defective polypeptides at the endoplasmic reticulum membrane (PubMed:>29932915). Acts as a negative regulator of platelet aggregation following secretion in the extracellular space (PubMed:>30425049). Acts as a regulator of endoplasmic reticulum- mitochondria contact sites via its ability to regulate redox signals (PubMed:>27502484, PubMed:>31304984). Regulates endoplasmic reticulum- mitochondria Ca(2+) flux (PubMed:>27502484).

Cellular Location

Endoplasmic reticulum membrane; Single-pass type I membrane protein. Mitochondrion membrane; Single-pass type I membrane protein. Secreted. Note=Predominantly found in the endoplasmic reticulum (PubMed:11152479). Secreted in the extracellular space following thrombin stimulation (PubMed:30425049). Localizes to mitochondria-associated endoplasmic reticulum membrane (MAM); palmitoylation is required for MAM localization (PubMed:22045338, PubMed:27502484, PubMed:31304984).

Tissue Location

Ubiquitous (PubMed:11152479). Highly expressed in kidney, liver, placenta and lung (PubMed:11152479)

Goat anti-TXND1 / TMX, biotinylated Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Goat anti-TXND1 / TMX, biotinylated Antibody - Images