

Product Name: KD-Validated TXNDC5 Mouse Monoclonal Antibody**Catalog #: KVA01706**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB,FCM,ICC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Mouse mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:2,500-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 47.6kDa

Antigen Information

Gene Name	TXNDC5 TXNDC5; Thioredoxin Domain Containing 5; ERp46; EndoPDI; PDIA15; Hsc-2; Protein Disulfide Isomerase Family A, Member 15; Endoplasmic Reticulum Resident Protein 46; Thioredoxin Domain-Containing Protein 5; Thioredoxin-Like Protein P46; ER Protein 46;
Alternative Names	FLJ21353; FLJ90810; MGC3178; Thioredoxin Domain Containing 5 (Endoplasmic Reticulum); Epididymis Secretory Sperm Binding Protein; Endothelial Protein Disulphide Isomerase; Endoplasmic Reticulum Protein ERp46; Thioredoxin Related Protein; EC 1.8.4.-; EC 5.3.4.1; UNQ364; STRF8; TLP46; HCC2
Gene ID	81567.0
SwissProt ID	Q8NBS9
Immunogen	Recombinant protein of human TXNDC5

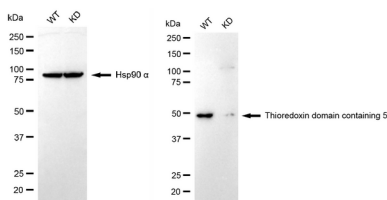
Background

This gene encodes a member of the disulfide isomerase (PDI) family of endoplasmic reticulum (ER) proteins that catalyze protein folding and thiol-disulfide interchange reactions. The encoded protein has an N-terminal endoplasmic reticulum (ER)-signal sequence, three catalytically active thioredoxin domains and a C-terminal ER-retention sequence. Its expression is induced by hypoxia and its role may be to protect hypoxic cells from apoptosis. Alternative splicing results in multiple transcript variants. Read-through transcription also exists between this gene and the neighboring upstream BLOC1S5 gene. [provided by RefSeq, Dec 2016]

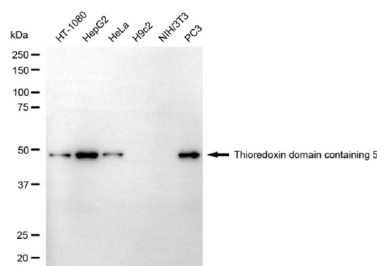
Research Area

Cell Biology, Signal Transduction

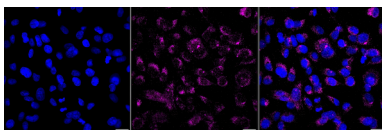
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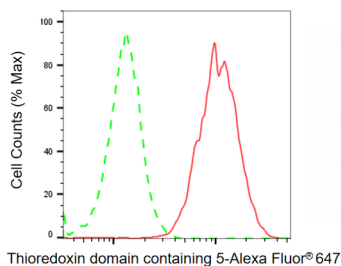
Western blotting analysis using thioredoxin domain containing 5 antibody (KVA01706). Thioredoxin domain containing 5 expression in wild type (WT) and thioredoxin domain containing 5 (TXNDC5) knockdown (KD) HSHC cells with 30 µg of total cell lysates. Hsp90α serves as a loading control. The blot was incubated with thioredoxin domain containing 5 antibody (KVA01706, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Western blotting analysis using thioredoxin domain containing 5 antibody (KVA01706). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with thioredoxin domain containing 5 antibody (KVA01706, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Immunocytochemical staining of HT-1080 cells with Thioredoxin domain containing 5 antibody (KVA01706, 1:1,000). Nuclei were stained blue with DAPI; Thioredoxin domain containing 5 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Low. Scale bar, 20 µm.



Flow cytometric analysis of Thioredoxin domain containing 5 expression in HT-1080 cells using Thioredoxin domain containing 5 antibody (KVA01706, 1:2,000). Green, isotype control; red, Thioredoxin domain containing 5.