

For Research Use Only

TXNDC5 Recombinant antibody

Catalog Number: 84756-5-RR



Basic Information

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| Catalog Number: 84756-5-RR | GenBank Accession Number: BC001199 | Purification Method: Protein A purification |
| Size: 100ul , Concentration: 1000 µg/ml by Nanodrop; | GeneID (NCBI): 81567 | CloneNo.: 242195G7 |
| Source: Rabbit | UNIPROT ID: Q8NBS9 | Recommended Dilutions: WB 1:5000-1:50000 IHC 1:200-1:800 IF/ICC 1:250-1:1000 |
| Isotype: IgG | Full Name: thioredoxin domain containing 5 (endoplasmic reticulum) | |
| Immunogen Catalog Number: AG13965 | Calculated MW: 432 aa, 48 kDa | |
| | Observed MW: 48 kDa | |

Applications

Tested Applications:
WB, IHC, IF/ICC, ELISA

Species Specificity:
human

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : HepG2 cells, TF-1 cells, COLO 320 cells, K-562 cells, LNCap cells, Jurkat cells

IHC : human stomach cancer tissue,

IF/ICC : HeLa cells,

Background Information

TXNDC5, or Thioredoxin Domain Containing 5, is a protein-coding gene that plays a significant role in cellular processes, particularly in the endoplasmic reticulum (ER). This gene is essential for the proper functioning of the cellular environment, primarily through its involvement in the formation and rearrangement of disulfide bonds within proteins. Disulfide bonds are crucial for the stability and functionality of many proteins, and TXNDC5 facilitates these processes through its thioredoxin domains, which contain enzymatic activities that promote correct protein folding and maturation in the ER. Recent studies highlight the expression characteristics of TXNDC5 across various diseases. It has been implicated in the promotion of malignant diseases, suggesting a potential role in cancer biology and other pathological conditions. (PMID:25526565; 38629066)

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

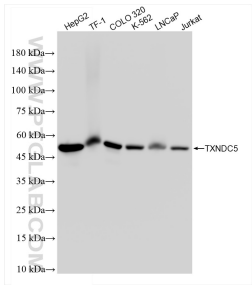
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

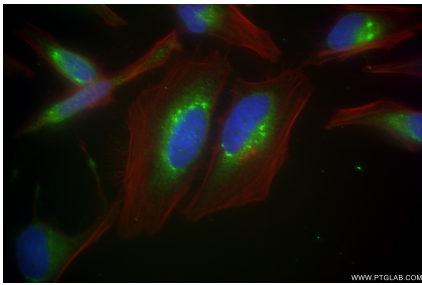
E: proteintech@ptglab.com
W: ptglab.com

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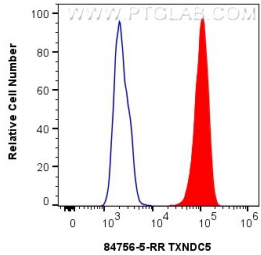
Selected Validation Data



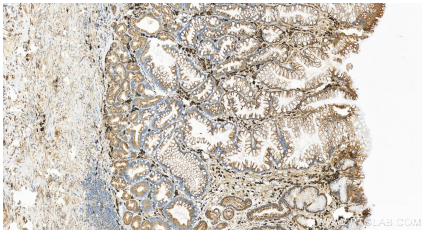
Various lysates were subjected to SDS PAGE followed by western blot with 84756-5-RR (TXNDC5 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



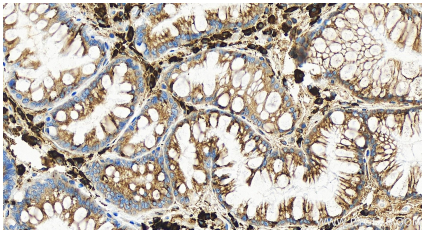
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using TXNDC5 antibody (84756-5-RR, Clone: 242195G7) at dilution of 1:500 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



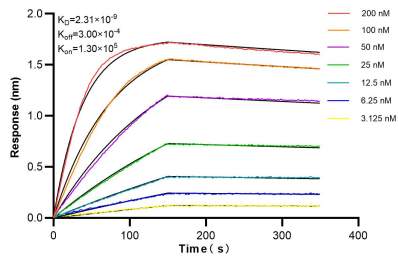
1x10⁶ HeLa cells were intracellularly stained with 0.25 ug TXNDC5 Recombinant antibody (84756-5-RR, Clone:242195G7) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2) (red), or 0.25 ug Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 84756-5-RR (TXNDC5 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 84756-5-RR (TXNDC5 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLI) kinetic assays of 84756-5-RR against Human TXNDC5 were performed. The affinity constant is 2.31 nM.