

For Research Use Only

TXNDC5 Recombinant antibody, PBS Only

Catalog Number: 84756-5-PBS



Basic Information

Catalog Number: 84756-5-PBS	GenBank Accession Number: BC001199	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 81567	CloneNo.: 242195G7
Source: Rabbit	UNIPROT ID: Q8NBS9	
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, FC (Intra), Indirect ELISA

Species Specificity:
human

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

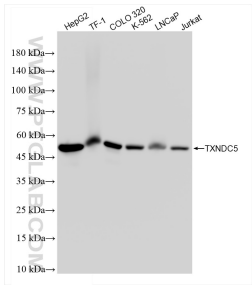
Storage:
Store at -80°C.

Storage Buffer:
PBS Only

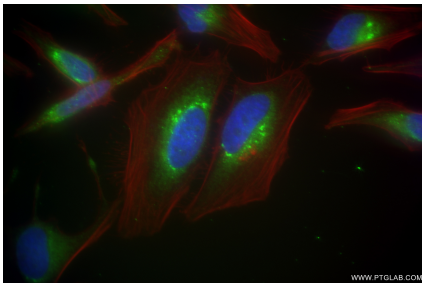
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

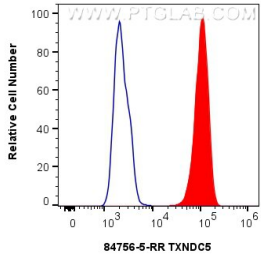
Selected Validation Data



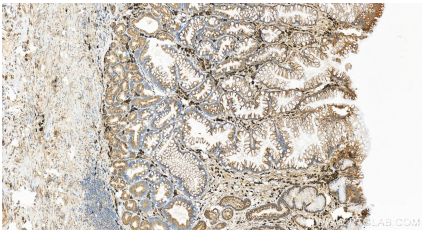
Various lysates were subjected to SDS PAGE followed by western blot with 84756-5-RR (TXNDC5 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84756-5-PBS in a different storage buffer formulation.



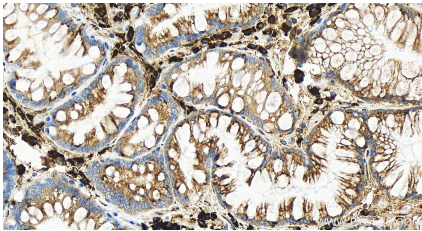
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using TXNDC5 antibody (84756-5-RR, Clone: 242195G7) at dilution of 1:500 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red). This data was developed using the same antibody clone with 84756-5-PBS in a different storage buffer formulation.



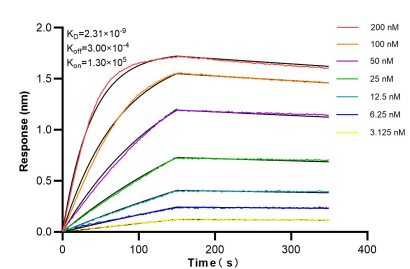
1x10⁶ HeLa cells were intracellularly stained with 0.25 ug TXNDC5 Recombinant antibody (84756-5-RR, Clone:242195G7) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed with 4% PFA and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



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). This data was developed using the same antibody clone with 84756-5-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 84756-5-PBS in a different storage buffer formulation.



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