

For Research Use Only

# TXNL1 Polyclonal antibody

Catalog Number: 15289-1-AP **3 Publications**



## Basic Information

<b>Catalog Number:</b> 15289-1-AP	<b>GenBank Accession Number:</b> BC001156	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 550 µg/ml	<b>GeneID (NCBI):</b> 9352	<b>Recommended Dilutions:</b> WB 1:500-1:2000
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> O43396	IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate
<b>Isotype:</b> IgG	<b>Full Name:</b> thioredoxin-like 1	IHC 1:100-1:400
<b>Immunogen Catalog Number:</b> AG7481	<b>Calculated MW:</b> 32 kDa	IF 1:50-1:500
	<b>Observed MW:</b> 32 kDa	

## Applications

<b>Tested Applications:</b> IF/ICC, IHC, IP, WB, ELISA	<b>Positive Controls:</b> WB : K-562 cells, HL-60 cells
<b>Cited Applications:</b> WB, IHC	IP : HL-60 cells,
<b>Species Specificity:</b> human, mouse, rat	IHC : human heart tissue, human thyroid cancer tissue
<b>Cited Species:</b> human	IF : RAW 264.7 cells,
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

TXNL1 (Thioredoxin-like protein 1) is also named as TRP32, TXL, TXNL and belongs to the thioredoxin family. It might be involved in the cellular response to sugar starvation stress. The predicted 289-amino acid, 32.3-kD protein has 2 distinct domains: an N-terminal domain, which is 43% identical to human TXN, and a C-terminal domain, which showed no homology to other proteins in the sequence databases (PMID:9473519). TXNL1 functions as an effector of oxidants or redox sensor that couples oxidative stress to endocytosis, by converting redox changes into a specific GDI:Rab5-mediated endocytic response (PMID:17987124).

## Notable Publications

Author	Pubmed ID	Journal	Application
Caiying Wang	30290847	Vet Res	WB
Pan Ni	25348020	Curr Cancer Drug Targets	WB
W Xu	24525731	Cell Death Dis	WB, IHC

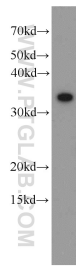
## Storage

**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

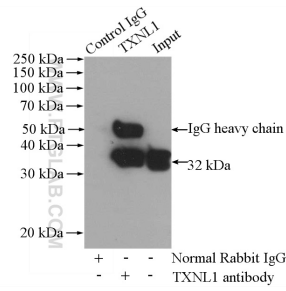
For technical support and original validation data for this product please contact:  
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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

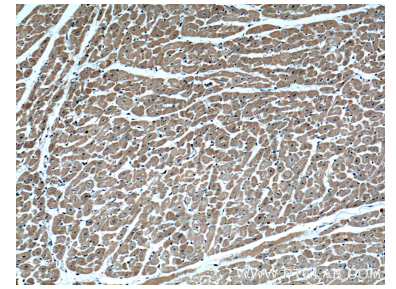
## Selected Validation Data



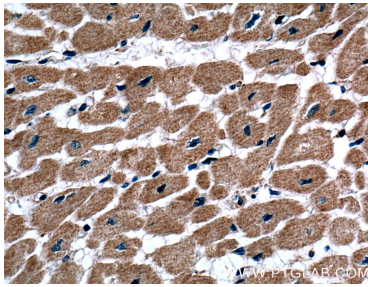
K-562 cells were subjected to SDS PAGE followed by western blot with 15289-1-AP (TXNL1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



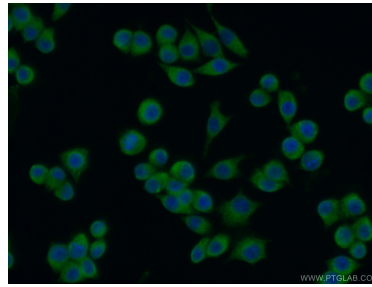
IP result of anti-TXNL1 (IP:15289-1-AP, 4ug; Detection:15289-1-AP 1:300) with HL-60 cells lysate 960ug.



Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 15289-1-AP (TXNL1 Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 15289-1-AP (TXNL1 Antibody) at dilution of 1:200 (under 40x lens).



Immunofluorescent analysis of (4% PFA) fixed RAW 264.7 cells using 15289-1-AP (TXNL1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).