

For Research Use Only

# TXNIP Polyclonal antibody

Catalog Number: 27429-1-AP



## Basic Information

<b>Catalog Number:</b> 27429-1-AP	<b>GenBank Accession Number:</b> BC093702	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 450 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 10628	<b>Recommended Dilutions:</b> WB 1:500-1:1000
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9H3M7	<b>IHC 1:50-1:500</b>
<b>Isotype:</b> IgG	<b>Full Name:</b> thioredoxin interacting protein	<b>IF/ICC 1:200-1:800</b>
<b>Immunogen Catalog Number:</b> AG26579	<b>Calculated MW:</b> 391 aa, 44 kDa	
	<b>Observed MW:</b> 50-55 kDa	

## Applications

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

**Species Specificity:**  
human, mouse

**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 :** HeLa cells, MCF-7 cells, RAW 264.7 cells

**IHC :** mouse colon tissue,

**IF/ICC :** HeLa cells,

## Background Information

TXNIP, also known as VDUP-1 or TBP-2, belongs to alpha-arrestin protein family and is perhaps the only family member known to bind thioredoxin (TRX). TXNIP was induced by Vitamin D3, but not induced by another monocyte or macrophage differentiation inducer: phorbol 12-myristate 13-acetate (PMA). TXNIP bound catalytic active center of thioredoxin (TRX), which protected cells against oxidative stress. TXNIP was found to be a negative regulator of thioredoxin activity and inducer of the intracellular level of reactive oxygen species (ROS). TXNIP plays an important role in a wide variety of biological functions, such as the regulation of cell death, growth, differentiation, and energy metabolism.

## Storage

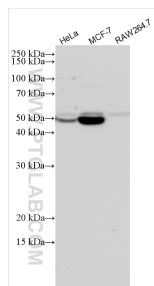
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

**\*\*\* 20ul sizes contain 0.1% BSA**

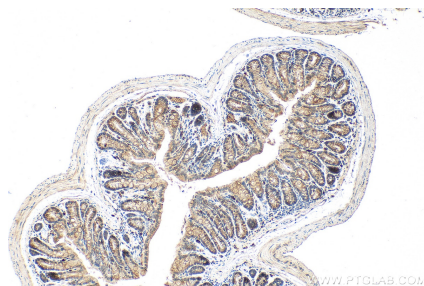
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

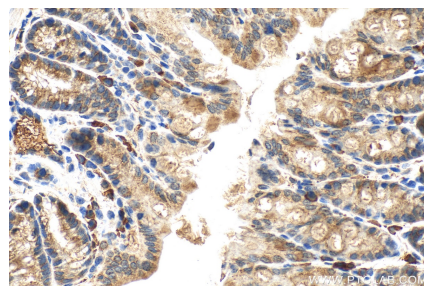
## Selected Validation Data



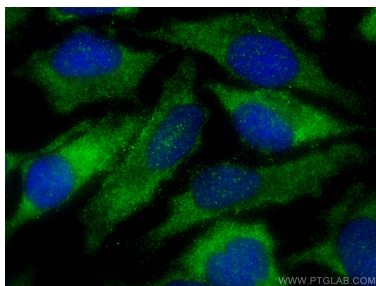
Various lysates were subjected to SDS PAGE followed by western blot with 27429-1-AP (TXNIP antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse colon tissue slide using 27429-1-AP (TXNIP antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse colon tissue slide using 27429-1-AP (TXNIP antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using TXNIP antibody (27429-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).