

TXNIP Polyclonal antibody

Catalog Number: 27429-1-AP

Basic Information

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

Applications

Tested Applications: IF/ICC, IHC, WB, ELISA	Positive Controls:
Species Specificity: human, mouse	WB : HeLa cells, MCF-7 cells, RAW 264.7 cells
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	IHC : mouse colon tissue,
	IF/ICC : HeLa cells,

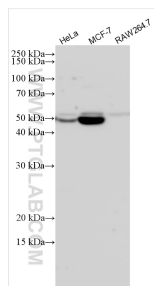
Background Information

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.

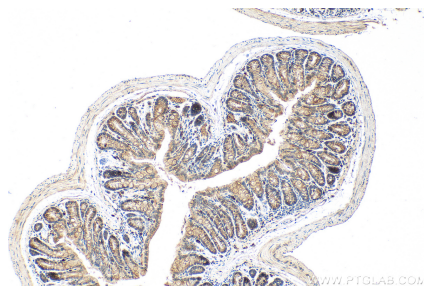
Storage

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

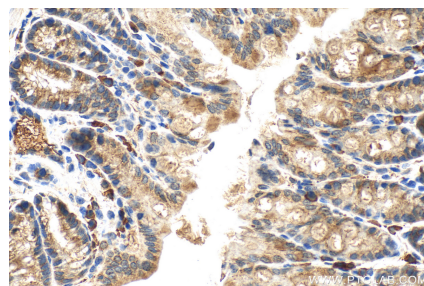
Selected Validation Data



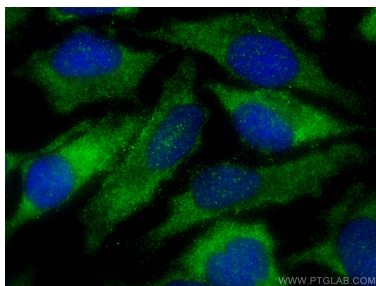
Various lysates were subjected to SDS PAGE followed by western blot with 27429-1-AP (TXNIP antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



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 AffiniPure Goat Anti-Rabbit IgG(H+L).