

Datasheet for ABIN6149733  
**anti-TXNIP antibody (AA 1-166)**

5 Images

1 Publication

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## Overview

Quantity:	100 µL
Target:	TXNIP
Binding Specificity:	AA 1-166
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TXNIP antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

## Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-166 of human TXNIP (NP_006463.3).
Sequence:	MVMFKKIKSF EVVFNDPEKV YGSGEKVAGR VIVEVCEVTR VKAVRILACG VAKVLWMQGS QQCKQTSEYL RYEDTLLED QPTGENEMVI MRPGNKYEYK FGFELPQGGL GTSFKGKYGC VDYWVKAFLD RPSQPTQETK KNFEVDLVD VNTPDLMAPV SAKKEK
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies

## Target Details

Target:	TXNIP
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## Target Details

Alternative Name:	TXNIP ( <a href="#">TXNIP Products</a> )
Background:	This gene encodes a thioredoxin-binding protein that is a member of the alpha arrestin protein family. Thioredoxin is a thiol-oxidoreductase that is a major regulator of cellular redox signaling which protects cells from oxidative stress. This protein inhibits the antioxidative function of thioredoxin resulting in the accumulation of reactive oxygen species and cellular stress. This protein also functions as a regulator of cellular metabolism and of endoplasmic reticulum (ER) stress. This protein may also function as a tumor suppressor. Alternate splicing results in multiple transcript variants.,TXNIP,ARRDC6,EST01027,HHCPA78,THIF,VDUP1,Epigenetics & Nuclear Signaling,Nuclear Receptor Signaling,Cancer,Tumor suppressors,Signal Transduction,Cell Biology & Developmental Biology,Apoptosis,Endocrine & Metabolism,Carbohydrate metabolism,TXNIP
Molecular Weight:	37 kDa/43 kDa
Gene ID:	10628
UniProt:	<a href="#">Q9H3M7</a>
Pathways:	<a href="#">Protein targeting to Nucleus</a> , <a href="#">Platelet-derived growth Factor Receptor Signaling</a> , <a href="#">Inflammasome</a>

## Application Details

Application Notes:	WB,1:200 - 1:2000,IF,1:50 - 1:200
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

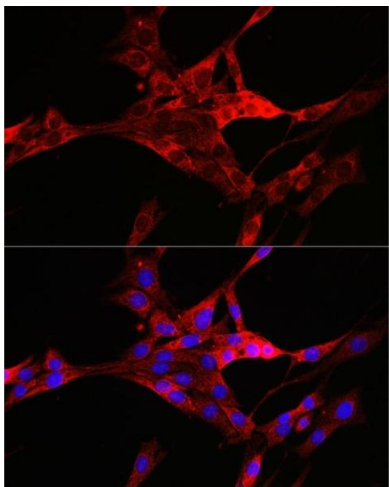
## Publications

Product cited in:	Ju, Chen, Deng, Liu, Wang, Wang, Nie, Wang, Ding, Yao, Gui, Li, Xu, Ma, Song, Kvensakul, Zen,
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Zhang, Luo, Fang, Huang, Allis, Tan, Zeng, Wei, Zhao: "NatD promotes lung cancer progression by preventing histone H4 serine phosphorylation to activate Slug expression." in: **Nature communications**, Vol. 8, Issue 1, pp. 928, (2018) ([PubMed](#)).

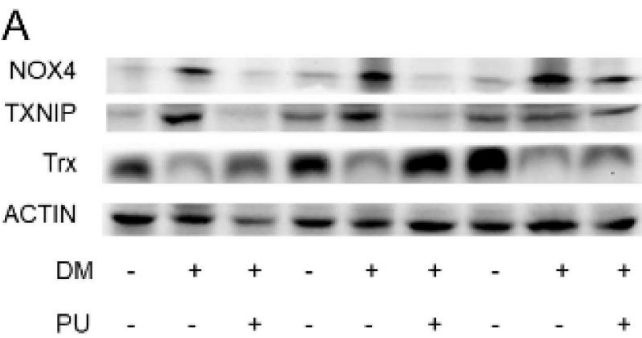
Liang, Yang, Guan, Lv, Qu, Fu, Zhao: "LncRNA UCA1 sponges miR-204-5p to promote migration, invasion and epithelial-mesenchymal transition of glioma cells via upregulation of ZEB1." in: **Pathology, research and practice**, Vol. 214, Issue 9, pp. 1474-1481, (2018) ([PubMed](#)).

Images



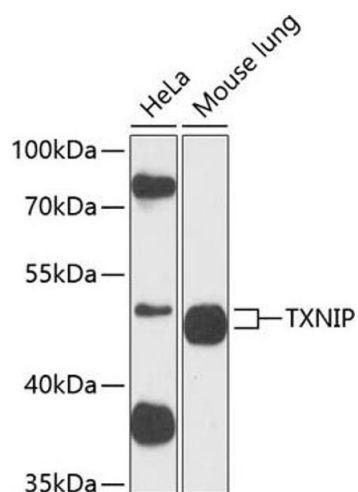
**Immunofluorescence**

**Image 1.** Immunofluorescence analysis of PC-12 cells using TXNIP antibody (ABIN6130776, ABIN6149733, ABIN6149734 and ABIN6224986) at dilution of 1:100. Blue: DAPI for nuclear staining.



**Western Blotting**

**Image 2.** Effects of PU on the high glucose-induced inflammasome signaling pathway. (A) The results of NOX4, TXNIP, and Trx by Western blot. (B) Protein expression levels of NOX4 by WB. (C) Protein expression levels of TXNIP by WB. (D) Protein expression levels of Trx by WB. The relative expression is expressed by the ratio of the target protein to  $\beta$ -actin. \*  $p < 0.05$  vs. Con group, #  $p < 0.05$  vs. DM group. - figure provided by CiteAb. Source: PMID32456088



### Western Blotting

**Image 3.** Western blot analysis of extracts of Rat uterus, using TXNIP antibody (ABIN6130776, ABIN6149733, ABIN6149734 and ABIN6224986) at 1:890 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 90s.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN6149733.