

Anti-TXNIP Antibody

Catalog Number: A01409

About TXNIP

Thioredoxin-interacting protein (TXNIP) belongs to the arrestin family and plays a critical role in the antioxidant defense mechanisms of hematopoietic cells by activating the p53 pathway during oxidative stress (1,2). It functions as a transcriptional repressor and acts as an oxidative stress mediator by inhibiting thioredoxin activity (2). TXNIP expression is reduced in many types of tumors, and TXNIP overexpression inhibits tumor growth by blocking cell-cycle progression (3). It has recently reported that TXNIP deficiency correlates with a high incidence of hepatocellular carcinoma (HCC) (4). TXNIP and p53 interactions could potentially be a therapeutic target for oxidative stress-related diseases such as hematopoietic malignancies and metabolic diseases (5).

Overview

Product Name	Anti-TXNIP Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-TXNIP Antibody (Catalog # A01409). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IF, IHC-P, WB
Clonality	Polyclonal Clone: SK7
Formulation	TXNIP antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	TXNIP antibody can be stored at 4°C for three months and -20°C, stable for up to one year.
Host	Rabbit
Uniprot ID	Q9H3M7

Technical Details

Immunogen	TXNIP antibody was raised against a 16 amino acid peptide near the center of human TXNIP. The immunogen is located within amino acids 110 - 160 of TXNIP.
Predicted Reactive Species	Pig
Cross Reactivity	TXNIP antibody is human, mouse and rat reactive.
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	TXNIP antibody is affinity chromatography purified via peptide column.

Suggested Dilutions

Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.

If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.

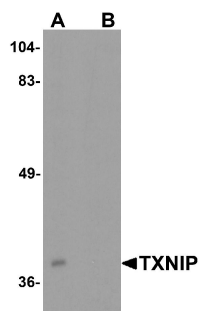
Some PubMed article(s) citing the expression level of this target are as follows:

Boster Bio's internal QC testing used:

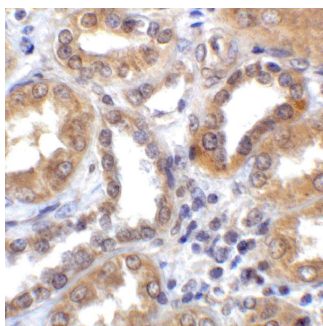
TXNIP body can be used for detection of TXNIP by Western blot at 0.5 - 1 ug/ml. Antibody can also be used for Immunohistochemistry at 2 ug/mL. For Immunofluorescence start at 5 ug/mL.

Antibody validated: Western Blot in mouse samples; Immunohistochemistry in human samples and Immunofluorescence in human samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

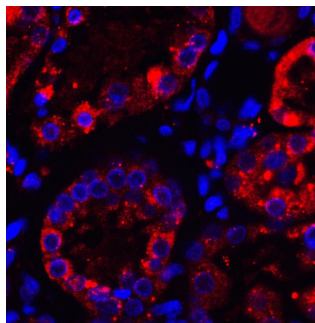
Anti-TXNIP Antibody (A01409) Images



Western blot analysis of TXNIP in C2C12 cell lysate with TXNIP antibody at 0.5 ug/ml in (A) the absence and (B) the presence of blocking peptide.



Immunohistochemistry of TXNIP in human kidney tissue with TXNIP antibody at 2 ug/ml.



Immunofluorescence of TXNIP in human kidney tissue with TXNIP antibody at 5 ug/ml.

Red: TXNIP Antibody (A01409)
Blue: DAPI staining

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