

Product datasheet for **TA349090**

TXNIP Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	WB: 0.5 - 1 ug/mL
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
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.
Formulation:	PBS containing 0.02% sodium azide.
Concentration:	1 mg/ml
Purification:	TXNIP antibody is affinity chromatography purified via peptide column.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	Predicted: 43 kDa; Observed: 39 kDa
Gene Name:	thioredoxin interacting protein
Database Link:	NP_006463 Entrez Gene 10628 Human Q9H3M7



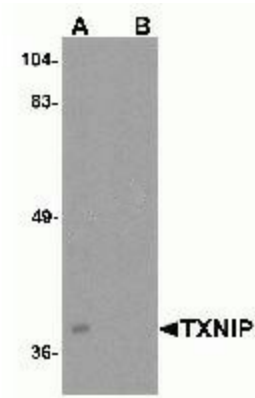
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Background:

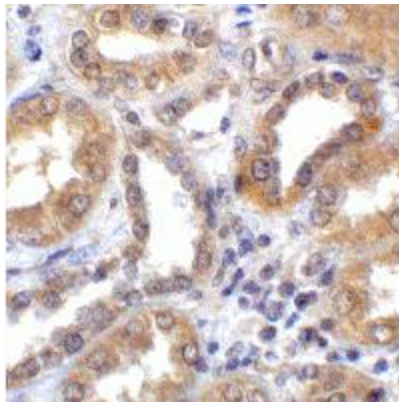
Thioredoxin-interacting protein (TXNIP) belongs to the arrestin family and plays a critical role in the antioxidant defense mechanisms of hematopoietic cells by activating the p53 pathway during oxidative stress (1,2). It functions as a transcriptional repressor and acts as an oxidative stress mediator 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).

Synonyms:

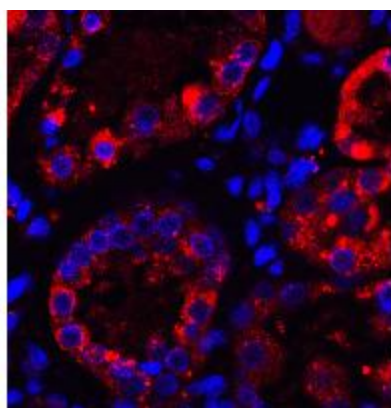
HBLRR; LST-1; LST1; OATP-C; OATP1B1; OATP2; OATPC; SLC21A6

Product images:

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



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



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