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Datasheet for 600-401-FT0

TXNIP Antibody

Overview

Description:	Anti-TXNIP (RABBIT) Antibody - 600-401-FT0
Item No.:	600-401-FT0
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

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:	Thioredoxin-interacting protein, BMP and activin membrane-bound inhibitor homolog, non-metastatic gene A protein, NMA
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	TXNIP
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-TXNIP antibody was prepared from whole rabbit serum produced by repeated immunizations with a 16 amino acid peptide near the internal region of human TXNIP
Purity/Specificity:	Anti-TXNIP antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. TXNIP antibody is human, mouse and rat reactive.
Relevant Links:	• UniProtKB - Q9H3M7 • GeneID - 10628 • NCBI - NP_001300901.1

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-TXNIP Antibody has been tested for use in ELISA, Immunohistochemistry, Immunofluorescence, and Western Blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 44 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:5000 - 1:10000
IF:	5 µg/mL
IHC:	2 µg/mL
WB:	0.5-1 µg/ml

Formulation

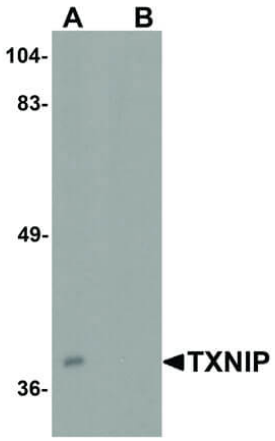
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice

Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot
Western Blot of Rabbit anti-TXNIP antibody. Lane A: C2C12 cell lysate in the absence of blocking peptide. Lane B: C2C12 cell lysate in the presence of blocking peptide. Primary antibody: TXNIP antibody at 0.5 µg/mL overnight at 4℃. Secondary antibody: Goat anti-Rabbit HRP secondary antibody. Block: 5% BLOTTO. Predicted/Observed size: 43 kDa, 39 kDa for TXNIP.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.