

Product datasheet

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ARG43076 anti-TXNIP antibody

Package: 100 μl Store at: -20°C

Summary

Product Description Rabbit Polyclonal antibody recognizes TXNIP

Tested Reactivity Hu, Ms, Rat

Tested Application ICC/IF, IHC-P, WB

Host Rabbit

Clonality Polyclonal

Isotype IgG

Target Name TXNIP

Species Human

Immunogen Synthetic peptide derived from Human TXNIP.

Conjugation Un-conjugated

Alternate Names Thioredoxin-binding protein 2; Vitamin D3 up-regulated protein 1; Thioredoxin-interacting protein;

HHCPA78; VDUP1; THIF; EST01027

Application Instructions

Application table	Application	Dilution
	ICC/IF	1:50 - 1:200
	IHC-P	1:50 - 1:200
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	BxPC-3	

Properties

Form Liquid

Purification Affinity purified.

Buffer PBS (pH 7.4), 150 mM NaCl, 0.02% Sodium azide and 50% Glycerol.

Preservative 0.02% Sodium azide

Stabilizer 50% Glycerol

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol TXNIP

Gene Full Name thioredoxin interacting protein

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. [provided by RefSeq, Sep 2015]

Function May act as an oxidative stress mediator by inhibiting thioredoxin activity or by limiting its

bioavailability. Interacts with COPS5 and restores COPS5-induced suppression of CDKN1B stability, blocking the COPS5-mediated translocation of CDKN1B from the nucleus to the cytoplasm. Functions as a transcriptional repressor, possibly by acting as a bridge molecule between transcription factors and corepressor complexes, and over-expression will induce GO/G1 cell cycle arrest. Required for the maturation of natural killer cells. Acts as a suppressor of tumor cell growth. Inhibits the proteasomal degradation of DDIT4, and thereby contributes to the inhibition of the mammalian target of rapamycin

complex 1 (mTORC1). [UniProt]

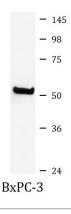
Calculated Mw 44 kDa

PTM Ubiquitinated; undergoes polyubiquitination catalyzed by ITCH resulting in proteasomal degradation.

[UniProt]

Cellular Localization Cytoplasm. [UniProt]

Images



ARG43076 anti-TXNIP antibody WB image

Western blot: BxPC-3 cell lysate stained with ARG43076 anti-TXNIP antibody.