

**Mouse Txnip Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP20130c****Specification**

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**Mouse Txnip Antibody (Center) - Product Information**

Application	IHC-P, WB,E
Primary Accession	<a href="#">Q8BG60</a>
Other Accession	<a href="#">Q5M7W1</a> , <a href="#">NP_001009935.1</a>
Reactivity	Mouse
Predicted	Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	116-145

**Mouse Txnip Antibody (Center) - Additional Information****Gene ID** 56338**Other Names**

Thioredoxin-interacting protein, Vitamin D3 up-regulated protein 1, Txnip, Vdup1

**Target/Specificity**

This Mouse Txnip antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 116-145 amino acids from the Central region of mouse Txnip.

**Dilution**

IHC-P~~1:100

WB~~1:2000

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Mouse Txnip Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**Mouse Txnip Antibody (Center) - Protein Information****Name** Txnip

## Synonyms Vdup1

**Function** May act as an oxidative stress mediator by inhibiting thioredoxin activity or by limiting its bioavailability (PubMed:[10843682](#)). Interacts with COPS5 and restores COPS5-induced suppression of CDKN1B stability, blocking the COPS5-mediated translocation of CDKN1B from the nucleus to the cytoplasm (PubMed:[15930262](#)). Functions as a transcriptional repressor, possibly by acting as a bridge molecule between transcription factors and corepressor complexes, and over-expression will induce G0/G1 cell cycle arrest (By similarity). Required for the maturation of natural killer cells (PubMed:[15723808](#)). 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) (By similarity).

## Cellular Location

Cytoplasm.

## Tissue Location

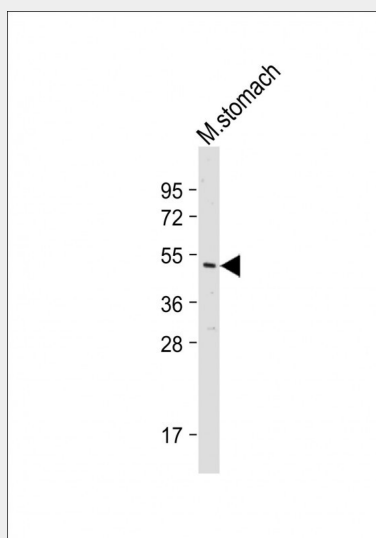
Ubiquitously expressed.

## Mouse Txnip Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## Mouse Txnip Antibody (Center) - Images



Anti-Mouse Txnip Antibody (Center) at 1:2000 dilution + Mouse stomach tissue lysate  
Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated  
at 1/10000 dilution. Predicted band size : 44 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Immunohistochemical analysis of AP20130c on paraffin-embedded Mouse liver tissue. Tissue was fixed with formaldehyde at room temperature. Heat induced epitope retrieval was performed by EDTA buffer (pH9.0). Samples were incubated with primary antibody(1:100) for 1 hour at room temperature. Undiluted CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.

#### **Mouse Txnip Antibody (Center) - Background**

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 G0/G1 cell cycle arrest. Required for the maturation of natural killer cells.

#### **Mouse Txnip Antibody (Center) - References**

Kwon, H.J., et al. Toxicol. Appl. Pharmacol. 248(3):277-284(2010)  
Kwon, H.J., et al. J. Immunol. 185(7):3980-3989(2010)  
Ren, Y., et al. FEBS Lett. 584(15):3480-3485(2010)  
Chutkow, W.A., et al. Diabetes 59(6):1424-1434(2010)  
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