

### **TXNIP Antibody (Internal)**

Rabbit Polyclonal Antibody Catalog # ALS17113

### **Specification**

### **TXNIP Antibody (Internal) - Product Information**

Application IHC
Primary Accession Q9H3M7
Other Accession 10628

Reactivity Human, Mouse, Rat

Host Rabbit
Clonality Polyclonal
Calculated MW 43661

## **TXNIP Antibody (Internal) - Additional Information**

**Gene ID 10628** 

#### **Other Names**

TXNIP, HHCPA78, THIF, VDUP1, Thioredoxin binding protein 2, Thioredoxin-binding protein 2, EST01027

# **Target/Specificity**

TXNIP antibody is human, mouse and rat reactive.

### **Reconstitution & Storage**

PBS, 0.02% sodium azide. Long term: -20°C; Short term: +4°C. Avoid repeat freeze-thaw cycles.

### **Precautions**

TXNIP Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

#### **TXNIP Antibody (Internal) - Protein Information**

#### **Name TXNIP**

### Synonyms VDUP1

#### **Function**

May act as an oxidative stress mediator by inhibiting thioredoxin activity or by limiting its bioavailability (PubMed:<a href="http://www.uniprot.org/citations/17603038" target="\_blank">17603038</a>). Interacts with COPS5 and restores COPS5-induced suppression of CDKN1B stability, blocking the COPS5-mediated translocation of CDKN1B from the nucleus to the cytoplasm (By similarity). 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 (PubMed:<a href="http://www.uniprot.org/citations/12821938" target="\_blank">12821938</a></a>). Required for the maturation of natural killer cells (By similarity). Acts as a suppressor of tumor cell growth (PubMed:<a



href="http://www.uniprot.org/citations/18541147" target="\_blank">18541147</a>). Inhibits the proteasomal degradation of DDIT4, and thereby contributes to the inhibition of the mammalian target of rapamycin complex 1 (mTORC1) (PubMed:<a href="http://www.uniprot.org/citations/21460850" target="\_blank">21460850</a>).

**Cellular Location** 

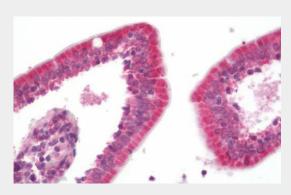
Cytoplasm {ECO:0000250|UniProtKB:Q8BG60}.

### **TXNIP Antibody (Internal) - Protocols**

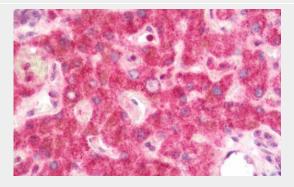
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- <u>Immunofluorescence</u>
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

# **TXNIP Antibody (Internal) - Images**



Human Small Intestine: Formalin-Fixed, Paraffin-Embedded (FFPE)



Human Liver: Formalin-Fixed, Paraffin-Embedded (FFPE)

### **TXNIP Antibody (Internal) - 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. 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).

# **TXNIP Antibody (Internal) - References**

Chen K.-S.,et al.Biochim. Biophys. Acta 1219:26-32(1994). Liyanage N.P.M.,et al.Exp. Eye Res. 85:270-279(2007). Toyama S.,et al.Submitted (DEC-2000) to the EMBL/GenBank/DDBJ databases. Ota T.,et al.Nat. Genet. 36:40-45(2004). Gregory S.G.,et al.Nature 441:315-321(2006).