

**TOB1 Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP8571a**

**Specification**

**TOB1 Antibody (N-term) - Product Information**

Application	<b>WB, IHC-P, FC,E</b>
Primary Accession	<a href="#">P50616</a>
Other Accession	<a href="#">Q8R5K6</a> , <a href="#">Q61471</a>
Reactivity	<b>Human, Mouse</b>
Predicted	<b>Rat</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Isotype	<b>Rabbit Ig</b>
Calculated MW	<b>38155</b>
Antigen Region	<b>54-83</b>

**TOB1 Antibody (N-term) - Additional Information**

**Gene ID** 10140

**Other Names**

Protein Tob1, Transducer of erbB-2 1, TOB1, TOB, TROB1

**Target/Specificity**

This TOB1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 54-83 amino acids from the N-terminal region of human TOB1.

**Dilution**

WB~~1:1000  
IHC-P~~1:50~100  
FC~~1:10~50

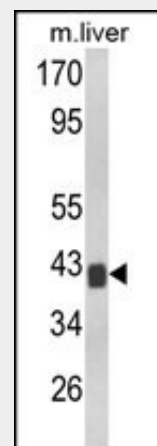
**Format**

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.

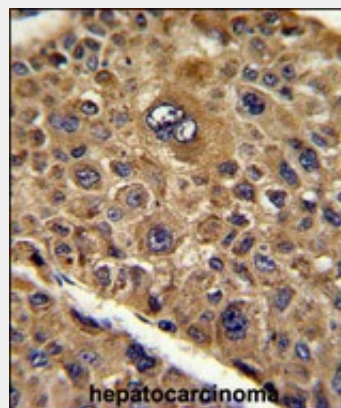
**Storage**

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**



Western blot analysis of TOB1 Antibody (N-term) (Cat. #AP8571a) in mouse liver tissue lysates (35ug/lane). TOB1 (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human hepatocarcinoma reacted with TOB1 Antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

TOB1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

#### TOB1 Antibody (N-term) - Protein Information

**Name** TOB1

**Synonyms** TOB, TROB1

#### Function

Anti-proliferative protein; the function is mediated by association with deadenylase subunits of the CCR4-NOT complex (PubMed:<a href="http://www.uniprot.org/citations/8632892" target="\_blank">8632892</a>, PubMed:<a href="http://www.uniprot.org/citations/23236473" target="\_blank">23236473</a>). Mediates CPEB3-accelerated mRNA deadenylation by binding to CPEB3 and recruiting CNOT7 which leads to target mRNA deadenylation and decay (PubMed:<a href="http://www.uniprot.org/citations/21336257" target="\_blank">21336257</a>).

#### Cellular Location

Cytoplasm. Nucleus. Note=Only a small fraction localizes to the cytoplasm except in late S- phase where more than half of proteins become cytoplasmic

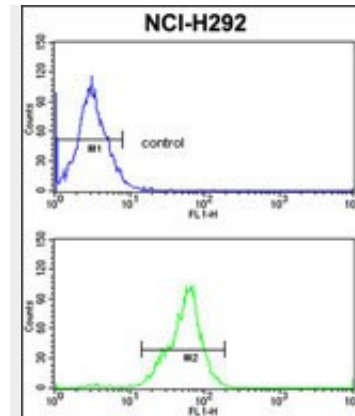
#### Tissue Location

Ubiquitous.

#### TOB1 Antibody (N-term) - 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](#)



TOB1 Antibody (N-term) (Cat. #AP8571a) flow cytometric analysis of NCI-H292 cells (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

#### TOB1 Antibody (N-term) - Background

TOB1 is a member of the tob/btg1 family of anti-proliferative proteins that have the potential to regulate cell growth. When exogenously expressed, this protein suppresses cell growth in tissue culture. The protein undergoes phosphorylation by a serine/threonine kinase, 90 kDa ribosomal S6 kinase. Interactions of this protein with the v-erb-b2 erythroblastic leukemia viral oncogene homolog 2 gene product p185 interferes with growth suppression. This protein inhibits T cell proliferation and transcription of cytokines and cyclins. The protein interacts with both mothers against decapentaplegic Drosophila homolog 2 and 4 to enhance their DNA binding activity. This interaction inhibits interleukin 2 transcription in T cells.

#### TOB1 Antibody (N-term) - References

- Suzuki, T., et al., Genes Dev. 16 (11), 1356-1370 (2002)  
Yoshida, Y., et al., Cell 103 (7), 1085-1097 (2000)