

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

**Specification**

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

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

**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**

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:[23236473](#), PubMed:[8632892](#)). Mediates CPEB3-accelerated mRNA deadenylation by binding to CPEB3 and recruiting CNOT7 which leads to target mRNA deadenylation and decay (PubMed:[21336257](#)).

**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

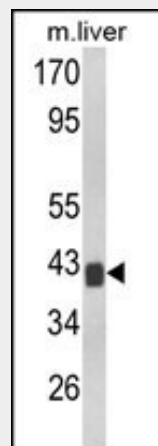
**Tissue Location**

Ubiquitous.

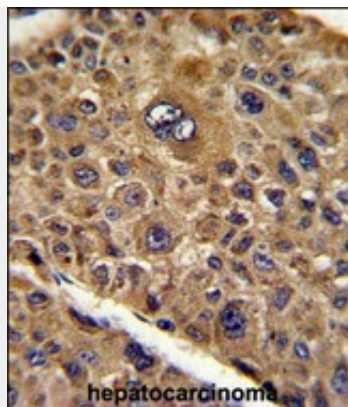
**TOB1 Antibody (N-term) - Protocols**

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

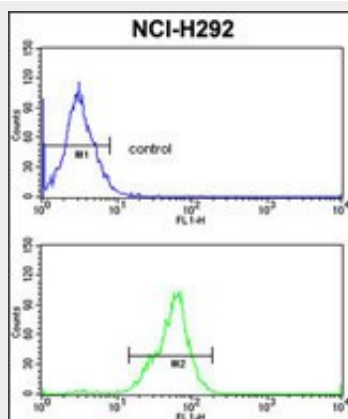
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**TOB1 Antibody (N-term) - Images**

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) (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)