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TOB1 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP8571a

Specification

TOB1 Antibody (N-term) - Product Information

Application	**WB, IHC-P, FC,E**
Primary Accession	P50616
Other Accession	Q8R5K6, Q61471
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:8632892, PubMed:23236473). 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

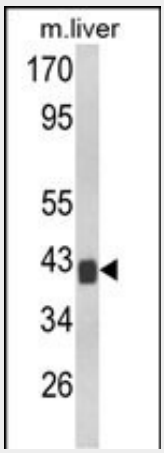
Tissue Location
Ubiquitous.

TOB1 Antibody (N-term) - Protocols

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

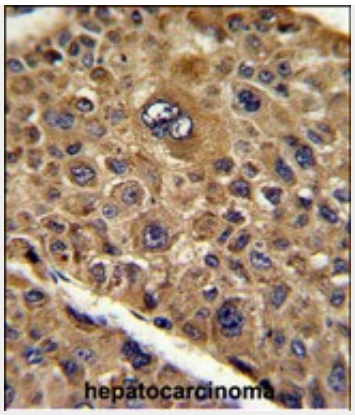
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

TOB1 Antibody (N-term) - Images

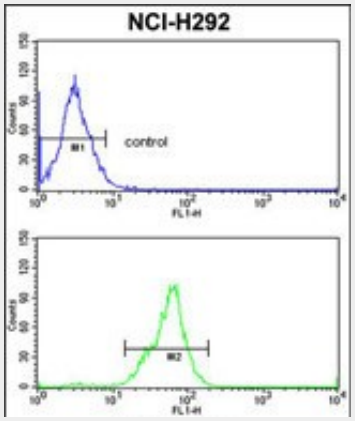


Western blot analysis of TOB1 Antibody (N-term) (Cat. #AP8571a) in mouse liver tissue lysates (35ug/lane). TOB1 (arrow) was detected using the purified Pab.

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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 supresses cell growth in tissue culture. The protein undergoes phophorylation 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)