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TOB1 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP8571a

Specification

TOB1 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession P50616

TOB1 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 10140

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

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP8571a was selected from the N-term region of human TOB1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

TOB1 Antibody (N-term) Blocking Peptide - 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) Blocking Peptide - Protocols

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

- Blocking Peptides

TOB1 Antibody (N-term) Blocking Peptide - Images

TOB1 Antibody (N-term) Blocking Peptide - 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) Blocking Peptide - References

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