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# Datasheet for ABIN2784777 anti-Protein Tob1 (TOB1) (Middle Region) antibody





### Overview

| Quantity:             | 100 μL   |
|-----------------------|--|
| Target:               | Protein Tob1 (TOB1)  |
| Binding Specificity:  | Middle Region  |
| Reactivity:           | Human, Mouse, Rat, Cow, Dog, Horse, Pig, Saccharomyces cerevisiae                          |
| Host:                 | Rabbit   |
| Clonality:            | Polyclonal   |
| Conjugate:            | Un-conjugated  |
| Application:          | Western Blotting (WB)  |
| Product Details       |  |
| Immunogen:            | The immunogen is a synthetic peptide directed towards the middle region of human TOB1      |
| Sequence:             | DLLKQKAISS SMHSLYGLGL GSQQQPQQQQ QPAQPPPPPP PPQQQQQQKT                                     |
| Predicted Reactivity: | Cow: 93%, Dog: 100%, Horse: 100%, Human: 100%, Mouse: 82%, Pig: 93%, Rat: 92%, Yeast: 100% |
| Characteristics:      | This is a rabbit polyclonal antibody against TOB1. It was validated on Western Blot.       |
| Purification:         | Affinity Purified  |
|                       |  |

## Target Details

| Target:           | Protein Tob1 (TOB1)  |
|-------------------|--|
| Alternative Name: | TOB1 (TOB1 Products)   |
| Background:       | This gene encodes a member of the tob/btg1 family of anti-proliferative proteins that have the |

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|                   | 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.                  |
|                   | Alias Symbols: APRO6, MGC104792, MGC34446, PIG49, TOB, TROB, TROB1                                   |
|                   | Protein Interaction Partner: CORO7, APP, DTL, CDC7, PABPC1, CHAF1A, PAN2, UBR5, ELAVL1,              |
|                   | SMAD3, CTNNB1, UBC, SKP2, SCMH1, MARCKS, SETDB1, CNOT7, SMAD9, SMAD5, SMAD6,                         |
|                   | SMAD1, SMAD2, SMAD4, MAPK1, ERBB2, RPS6KA1, MAPK9,   |
|                   | Protein Size: 345  |
| Molecular Weight: | 38 kDa   |
| Gene ID:          | 10140  |
| NCBI Accession:   | NM_005749, NP_005740   |
| UniProt:          | P50616   |

## Application Details

| Application Notes: | Optimal working dilutions should be determined experimentally by the investigator. |
|--------------------|--|
| Comment:           | Antigen size: 345 AA   |
| Restrictions:      | For Research Use only  |

## Handling

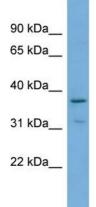
| Format:            | Liquid   |
|--------------------|--|
| Concentration:     | Lot specific   |
| Buffer:            | Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.                    |
| Preservative:      | Sodium azide   |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Handling Advice:   | Avoid repeated freeze-thaw cycles.   |

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## Handling

| Storage:         | -20 °C  |
|------------------|---|
| Storage Comment: | For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small |
|                  | aliquots to prevent freeze-thaw cycles.   |

#### Images

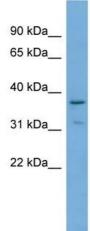


Rabbit Anti-TOB1 Antibody Catalog Number: ARP52105 Lot Number: QC28809 Lane: Jurkat Cell Lysate

Antibody Titration: 1.0µg/ml Gel Concentration: 12%

## Western Blotting

**Image 1.** WB Suggested Anti-TOB1 Antibody Titration: 0.2-1 μg/mL ELISA Titer: 1:1562500 Positive Control: Jurkat cell lysate



### Western Blotting

Image 2. WB Suggested Anti-TOB1 Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:1562500

Positive Control: Jurkat cell lysate

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