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# TRIB3 Antibody (C-term)

**Purified Rabbit Polyclonal Antibody (Pab)**
**Catalog # AP8157b**

## Specification

### TRIB3 Antibody (C-term) - Product Information

| | |
|---|---|
| Application | **WB,E** |
| Primary Accession | Q96RU7 |
| Reactivity | **Human, Mouse** |
| Host | **Rabbit** |
| Clonality | **Polyclonal** |
| Isotype | **Rabbit IgG** |
| Calculated MW | **39578** |
| Antigen Region | **301-331** |

### TRIB3 Antibody (C-term) - Additional Information

**Gene ID** 57761

**Other Names**
Tribbles homolog 3, TRB-3, Neuronal cell death-inducible putative kinase, SINK, p65-interacting inhibitor of NF-kappa-B, TRIB3, C20orf97, NIPK, SKIP3, TRB3

**Target/Specificity**
This TRIB3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 301-331 amino acids from the C-terminal region of human TRIB3.

**Dilution**
WB~~1:1000

**Format**
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**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**
TRIB3 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

### TRIB3 Antibody (C-term) - Protein Information

**Name** TRIB3

**Synonyms** C20orf97, NIPK, SKIP3, TRB3

**Function** Inactive protein kinase which acts as a regulator of the integrated stress response (ISR), a process for adaptation to various stress (PubMed:15781252, PubMed:15775988). Inhibits the transcriptional activity of DDIT3/CHOP and is involved in DDIT3/CHOP-dependent cell death during ER stress (PubMed:15781252, PubMed:15775988). May play a role in programmed neuronal cell death but does not appear to affect non-neuronal cells (PubMed:15781252, PubMed:15775988). Acts as a negative feedback regulator of the ATF4-dependent transcription during the ISR: while TRIB3 expression is promoted by ATF4, TRIB3 protein interacts with ATF4 and inhibits ATF4 transcription activity (By similarity). Disrupts insulin signaling by binding directly to Akt kinases and blocking their activation (By similarity). May bind directly to and mask the 'Thr-308' phosphorylation site in AKT1 (By similarity). Interacts with the NF-kappa-B transactivator p65 RELA and inhibits its phosphorylation and thus its transcriptional activation activity (PubMed:12736262). Interacts with MAPK kinases and regulates activation of MAP kinases (PubMed:15299019). Can inhibit APOBEC3A editing of nuclear DNA (PubMed:22977230).

**Cellular Location**
Nucleus.

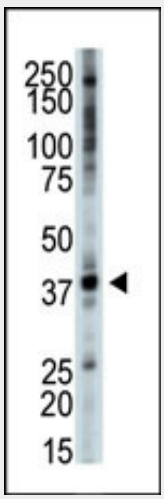
**Tissue Location**
Highest expression in liver, pancreas, peripheral blood leukocytes and bone marrow. Also highly expressed in a number of primary lung, colon and breast tumors. Expressed in spleen, thymus, and prostate and is undetectable in other examined tissues, including testis, ovary, small intestine, colon, leukocyte, heart, brain, placenta, lung, skeletal muscle, and kidney

## TRIB3 Antibody (C-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

## TRIB3 Antibody (C-term) - Images



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The anti-NPK Pab (Cat. #AP8157b) is used in Western blot to detect NPK in mouse skeletal muscle tissue lysate.

**TRIB3 Antibody (C-term) - Background**

NPK is a putative protein kinase that is induced by the transcription factor NF-kappaB. The encoded protein is a negative regulator of NF-kappaB and can also sensitize cells to TNF- and TRAIL-induced apoptosis. In addition, this protein can negatively regulate the cell survival serine-threonine kinase AKT1.

**TRIB3 Antibody (C-term) - References**

Wu, M., et al., J. Biol. Chem. 278(29):27072-27079 (2003).
Du, K., et al., Science 300(5625):1574-1577 (2003).
Bowers, A.J., et al., Oncogene 22(18):2823-2835 (2003).