

TRIB3 Antibody (N-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP8157A**Specification**

TRIB3 Antibody (N-term) - Product Information

Application	WB, IHC-P,E
Primary Accession	Q96RU7
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	39578
Antigen Region	15-45

TRIB3 Antibody (N-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 15-45 amino acids from the N-terminal region of human TRIB3.

Dilution

WB~~1:1000
IHC-P~~1:50~100

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 (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

TRIB3 Antibody (N-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

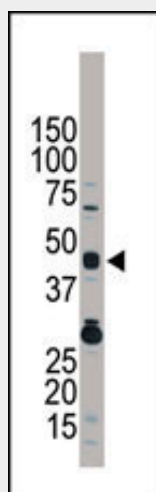
Highest expression in liver, pancreas, peripheral blood leukocytes and bone marrow. Also highly expressed in a number of primary lung, colon and breast tumors. Expressed in spleen, thymus, and prostate and is undetectable in other examined tissues, including testis, ovary, small intestine, colon, leukocyte,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

TRIB3 Antibody (N-term) - Protocols

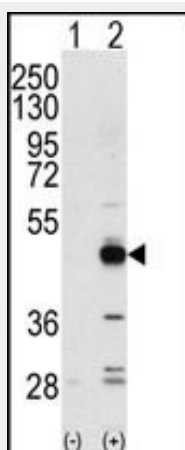
Provided below are standard protocols that you may find useful for product applications.

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

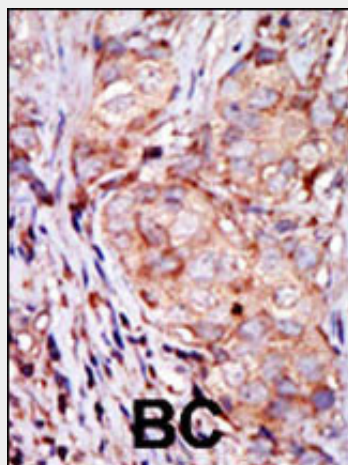
TRIB3 Antibody (N-term) - Images



The anti-NPK Pab (Cat. #AP8157a) is used in Western blot to detect NPK in Jurkat cell lysate.



Western blot analysis of NPK (arrow) using rabbit polyclonal NPK Antibody (Cat. #AP8157a). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the TRIB3 gene (Lane 2) (Origene Technologies).



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

TRIB3 Antibody (N-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 (N-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).