

TRIB3 Antibody

Rabbit mAb Catalog # AP92159

Product Information

Application WB
Primary Accession Q96RU7
Reactivity Human
Clonality Monoclonal

Other Names C20orf97; NIPK; SINK; SKIP3; TRB3; Trib3; Tribbles homolog 3; Tribbles

pseudokinase 3; Tribbles3;

IsotypeRabbit IgGHostRabbitCalculated MW39578

Additional Information

Dilution WB 1:500~1:2000 **Purification** Affinity-chromatography

Immunogen A synthesized peptide derived from human TRIB3

Description Disrupts insulin signaling by binding directly to Akt kinases and blocking their

activation. May bind directly to and mask the 'Thr-308' phosphorylation site in

AKT1. Binds to ATF4 and inhibits its transcriptional activation activity.

Storage Condition and Buffer Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium

azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term.

Avoid freeze / thaw cycle.

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:<u>15775988</u>, PubMed:<u>15781252</u>). Inhibits the transcriptional activity of DDIT3/CHOP and is

involved in DDIT3/CHOP-dependent cell death during ER stress

(PubMed:<u>15775988</u>, PubMed:<u>15781252</u>). May play a role in programmed neuronal cell death but does not appear to affect non-neuronal cells (PubMed:<u>15775988</u>, PubMed:<u>15781252</u>). 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).

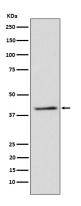
Cellular Location

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

Images



Western blot analysis of TRIB3 expression in 293T cell lysate.

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