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KD-Validated Anti-Tribbles pseudokinase 3 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1467

Product Information

Application	WB, ICC
Primary Accession	Q96RU7
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	23GB4690
Calculated MW	39578
Gene Name	TRIB3
Aliases	TRIB3; Tribbles Pseudokinase 3; TRB3; P65-Interacting Inhibitor Of NF-Kappa-B; Tribbles Homolog 3; DJ1103G7.3; C20orf97; SKIP3; TRB-3; NIPK; SINK; Neuronal Cell Death Inducible Putative Kinase; Neuronal Cell Death-Inducible Putative Kinase; P65-Interacting Inhibitor Of NF-KappaB; Chromosome 20 Open Reading Frame 97; Tribbles Homolog 3 (Drosophila); C20ORF97
Immunogen	A synthesized peptide derived from human TRIB3

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

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:15775988, PubMed:15781252). Inhibits the transcriptional activity of DDIT3/CHOP and is involved in DDIT3/CHOP-dependent cell death during ER stress (PubMed:15775988, PubMed:15781252). May play a role in programmed neuronal cell death but does not appear to affect non-neuronal cells (PubMed:15775988, PubMed:15781252). 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

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