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TRIM69 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12108a

Product Information

Application	WB, IHC-P, E
Primary Accession	Q86WT6
Other Accession	Q5BK82, NP_542783.2, NP_892030.3
Reactivity	Mouse
Predicted	Rat, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB29693
Calculated MW	57419
Antigen Region	101-129

Additional Information

Gene ID	140691
Other Names	E3 ubiquitin-protein ligase TRIM69, 632-, RFP-like domain-containing protein trimless, RING finger protein 36, Tripartite motif-containing protein 69, TRIM69, RNF36
Target/Specificity	This TRIM69 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 101-129 amino acids from the N-terminal region of human TRIM69.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
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	TRIM69 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	TRIM69
Synonyms	RNF36

Function	E3 ubiquitin-protein ligase that plays an important role in antiviral immunity by restricting different viral infections including dengue virus or vesicular stomatitis indiana virus (PubMed:23131556, PubMed:30142214, PubMed:31375575, PubMed:31578292). Ubiquitinates viral proteins such as dengue virus NS3 thereby limiting infection (PubMed:30844644). Also involved in antiviral immunity by mediating 'Lys-63'-linked ubiquitination of STING1, thereby promoting STING1 dimerization and downstream activation of cGAS-STING signaling (PubMed:41865946). In addition, acts as a key mediator of type I interferon induced microtubule stabilization by directly associating to microtubules independently of its E3 ligase activity (PubMed:36251989). Also plays a role in cataract formation together with TP53 (PubMed:30844644). Mechanistically, inhibits UVB-induced cell apoptosis and reactive oxygen species (ROS) production by inducing TP53 ubiquitination (PubMed:30844644). Regulates centrosome dynamics and mitotic progression by ubiquitinating STK3/MST2; leading to its redistribution to the perinuclear cytoskeleton and subsequent phosphorylation by PLK1 (PubMed:37739411).
Cellular Location	Cytoplasm. Nucleus. Nucleus speckle. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome Note=Adopts a filamentous distribution in the cell cytoplasm where it strongly colocalizes with stable microtubules

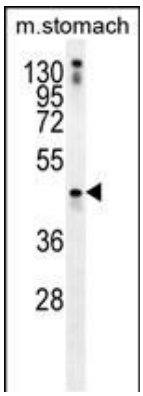
Background

This gene encodes a member of the RING-B-box-coiled-coil (RBCC) family and encodes a protein with an N-terminal RING finger motif, a PRY domain and a C-terminal SPRY domain. The mouse ortholog of this gene is specifically expressed in germ cells at the round spermatid stages during spermatogenesis and, when overexpressed, induces apoptosis. Alternatively spliced transcript variants encoding distinct isoforms have been described. It may play a role in apoptosis (By similarity).

References

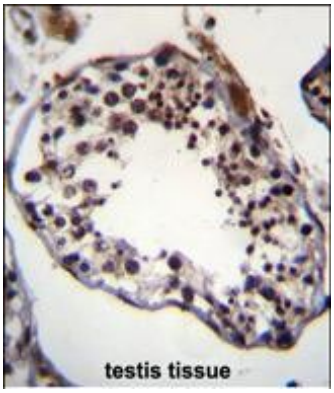
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Shyu, H.W., et al. Exp. Cell Res. 287(2):301-313(2003)
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Images



TRIM69 Antibody (N-term) (Cat. #AP12108a) western blot analysis in mouse stomach tissue lysates (35ug/lane).This demonstrates the TRIM69 antibody detected the TRIM69 protein (arrow).

TRIM69 Antibody (N-term) (Cat. #AP12108a)immunohistochemistry analysis in formalin fixed and paraffin embedded human testis tissue



followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of TRIM69 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.