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RNF36 (TRIM69) Antibody (Center K251)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2525d

Product Information

Application	WB, E
Primary Accession	Q86WT6
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB13944
Calculated MW	57419
Antigen Region	336-365

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 RNF36 (TRIM69) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 336-365 amino acids from the Central region of human RNF36 (TRIM69).
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
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	RNF36 (TRIM69) Antibody (Center K251) 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

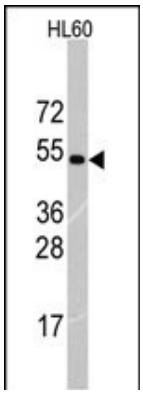
Background

TRIM69 is a member of the RING-B-box-coiled-coil (RBCC) family with an N-terminal RING finger motif, a PRY domain and a C-terminal SPRY domain. The mouse ortholog of TRIM69 is specifically expressed in germ cells at the round spermatid stages during spermatogenesis and, when overexpressed, induces apoptosis.

References

Shyu,H.W., Exp. Cell Res. 287 (2), 301-313 (2003)
Shyu,H.W., Mech. Dev. 108 (1-2), 213-216 (2001)

Images



Western blot analysis of anti-TRIM69 Antibody (Center K251) (RB13944) in HL60 cell line lysates (35ug/lane). TRIM69(arrow) was detected using the purified Pab.

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