

TRIM27 Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP56376**Specification****TRIM27 Polyclonal Antibody - Product Information**

Application	IHC-P, IHC-F, IF, ICC
Primary Accession	P14373
Reactivity	Rat, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	58490

TRIM27 Polyclonal Antibody - Additional Information**Gene ID** 5987**Other Names**

Zinc finger protein RFP, 2.3.2.27, RING finger protein 76, RING-type E3 ubiquitin transferase TRIM27, Ret finger protein, Tripartite motif-containing protein 27, TRIM27, RFP, RNF76

Format

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

TRIM27 Polyclonal Antibody - Protein Information**Name** TRIM27 {ECO:0000303|PubMed:22128329, ECO:0000312|HGNC:HGNC:9975}**Function**

E3 ubiquitin-protein ligase that mediates ubiquitination of various substrates and thereby plays a role in different processes including proliferation, innate immunity, apoptosis, immune response or autophagy (PubMed: [22829933](http://www.uniprot.org/citations/22829933) target="_blank">22829933, PubMed: [24144979](http://www.uniprot.org/citations/24144979) target="_blank">24144979, PubMed: [29688809](http://www.uniprot.org/citations/29688809) target="_blank">29688809, PubMed: [36111389](http://www.uniprot.org/citations/36111389) target="_blank">36111389). Ubiquitinates PIK3C2B and inhibits its activity by mediating the formation of 'Lys-48'-linked polyubiquitin chains; the function inhibits CD4 T-cell activation. Acts as a regulator of retrograde transport: together with MAGEL2, mediates the formation of 'Lys-63'-linked polyubiquitin chains at 'Lys-220' of WASHC1, leading to promote endosomal F-actin assembly (PubMed: [23452853](http://www.uniprot.org/citations/23452853) target="_blank">23452853). Has a transcriptional repressor activity by cooperating with EPC1. Induces apoptosis by activating Jun N-terminal kinase and p38 kinase and also increases caspase-3-like activity independently of mitochondrial events. May function in male germ cell development. Has DNA-binding activity and preferentially bound to double-stranded DNA. Forms a

complex with and ubiquitinates the ubiquitin-specific protease USP7, which in turn deubiquitinates RIPK1 resulting in the positive regulation of TNF-alpha-induced apoptosis (PubMed:24144979). In addition, acts with USP7 or PTPN11 as an inhibitor of the antiviral signaling pathway by promoting kinase TBK1 ubiquitination and degradation (PubMed:26358190, PubMed:29688809). Acts as a negative regulator of NOD2 signaling by mediating ubiquitination of NOD2, promoting its degradation by the proteasome (PubMed:22829933). Alternatively, facilitates mitophagy via stabilization of active TBK1 (PubMed:36111389). Negatively regulates autophagy flux under basal conditions by directly polyubiquitinating ULK1 (PubMed:35670107). During starvation-induced autophagy, catalyzes non-degradative ubiquitination of the kinase STK38L promoting its activation and phosphorylation of ULK1 leading to its ubiquitination and degradation to restrain the amplitude and duration of autophagy (PubMed:35670107).

Cellular Location

Nucleus. Cytoplasm. Nucleus, PML body. Early endosome. Mitochondrion. Note=Nuclear or cytoplasmic depending on the cell type (By similarity). Colocalized with PML and EIF3S6 in nuclear bodies. Recruited to retromer-containing endosomes via interaction with MAGEL2 (PubMed:23452853). Co-localizes with p62/SQSTM1 and TBK1 in cytoplasmic structures that are closely associated with the mitochondria (PubMed:36111389). {ECO:0000250, ECO:0000269|PubMed:23452853, ECO:0000269|PubMed:36111389}

Tissue Location

Expressed in testis namely within the seminiferous tubules.

TRIM27 Polyclonal Antibody - 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](#)

TRIM27 Polyclonal Antibody - Images