

TRIM21 Rabbit mAb
Catalog # AP76201**Specification****TRIM21 Rabbit mAb - Product Information**

Application	WB
Primary Accession	P19474
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	54170

TRIM21 Rabbit mAb - Additional Information

Gene ID 6737

Other Names

TRIM21

Dilution

WB~~1/500-1/1000

Format

Liquid

TRIM21 Rabbit mAb - Protein InformationName TRIM21 ([HGNC:11312](#))

Synonyms RNF81, RO52, SSA1

Function

E3 ubiquitin-protein ligase whose activity is dependent on E2 enzymes, UBE2D1, UBE2D2, UBE2E1 and UBE2E2 (PubMed: [16297862](http://www.uniprot.org/citations/16297862) , PubMed: [16316627](http://www.uniprot.org/citations/16316627) , PubMed: [16472766](http://www.uniprot.org/citations/16472766) , PubMed: [16880511](http://www.uniprot.org/citations/16880511) , PubMed: [18022694](http://www.uniprot.org/citations/18022694) , PubMed: [18361920](http://www.uniprot.org/citations/18361920) , PubMed: [18641315](http://www.uniprot.org/citations/18641315) , PubMed: [18845142](http://www.uniprot.org/citations/18845142) , PubMed: [19675099](http://www.uniprot.org/citations/19675099) , PubMed: [26347139](http://www.uniprot.org/citations/26347139)). Forms a ubiquitin ligase complex in cooperation with the E2 UBE2D2 that is used not only for the ubiquitination of USP4 and IKBKB but also for its self-ubiquitination (PubMed: [16880511](http://www.uniprot.org/citations/16880511) , PubMed: [19675099](http://www.uniprot.org/citations/19675099) , PubMed: [19675099](http://www.uniprot.org/citations/19675099)). Component of cullin-RING-based SCF (SKP1-CUL1-F-box protein)

E3 ubiquitin-protein ligase complexes such as SCF(SKP2)-like complexes (PubMed:16880511). A TRIM21-containing SCF(SKP2)-like complex is shown to mediate ubiquitination of CDKN1B ('Thr-187' phosphorylated- form), thereby promoting its degradation by the proteasome (PubMed:16880511). Monoubiquitinates IKBKB that will negatively regulates Tax-induced NF-kappa-B signaling (PubMed:19675099). Negatively regulates IFN-beta production post-pathogen recognition by catalyzing polyubiquitin-mediated degradation of IRF3 (PubMed:18641315). Mediates the ubiquitin-mediated proteasomal degradation of IgG1 heavy chain, which is linked to the VCP-mediated ER-associated degradation (ERAD) pathway (PubMed:18022694). Promotes IRF8 ubiquitination, which enhanced the ability of IRF8 to stimulate cytokine genes transcription in macrophages (By similarity). Plays a role in the regulation of the cell cycle progression (PubMed:16880511). Enhances the decapping activity of DCP2 (PubMed:18361920). Exists as a ribonucleoprotein particle present in all mammalian cells studied and composed of a single polypeptide and one of four small RNA molecules (PubMed:1985094, PubMed:8666824). At least two isoforms are present in nucleated and red blood cells, and tissue specific differences in RO/SSA proteins have been identified (PubMed:8666824). The common feature of these proteins is their ability to bind HY RNAs.2 (PubMed:8666824). Involved in the regulation of innate immunity and the inflammatory response in response to IFNG/IFN-gamma (PubMed:26347139). Organizes autophagic machinery by serving as a platform for the assembly of ULK1, Beclin 1/BECN1 and ATG8 family members and recognizes specific autophagy targets, thus coordinating target recognition with assembly of the autophagic apparatus and initiation of autophagy (PubMed:26347139). Regulates also autophagy through FIP200/RB1CC1 ubiquitination and subsequent decreased protein stability (PubMed:36359729). Represses the innate antiviral response by facilitating the formation of the NMI-IFI35 complex through 'Lys-63'- linked ubiquitination of NMI (PubMed:26342464). During viral infection, promotes cell pyroptosis by mediating 'Lys-6'-linked ubiquitination of ISG12a/IFI27, facilitating its translocation into the mitochondria and subsequent CASP3 activation (PubMed:36426955). When up-regulated through the IFN/JAK/STAT signaling pathway, promotes 'Lys-27'-linked ubiquitination of MAVS, leading to the recruitment of TBK1 and up- regulation of innate immunity (PubMed:29743353). Mediates 'Lys-63'- linked polyubiquitination of G3BP1 in response to heat shock, leading to stress granule disassembly (PubMed:36692217).

Cellular Location

Cytoplasm. Cytoplasmic vesicle, autophagosome. Nucleus. Cytoplasm, P-body. Cytoplasm, Stress granule. Note=Enters the nucleus upon exposure to nitric oxide (PubMed:18361920). Localizes to small dot- or rod-like structures in the cytoplasm, called processing bodies (P-bodies) that are located underneath the plasma membrane and also diffusely in the cytoplasm (PubMed:18361920). They are located along the microtubules and are highly motile in cells (PubMed:18361920). Colocalizes with DCP2 in P-bodies (PubMed:18361920). Localizes to stress granules in response to oxidative stress (PubMed:36692217).

Tissue Location

Isoform 1 and isoform 2 are expressed in fetal and adult heart and fetal lung

TRIM21 Rabbit mAb - 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](#)

TRIM21 Rabbit mAb - Images

