

Product Datasheet

TRIM21 Protein, Mouse, Recombinant (E. coli, His) (orb1977288)

Description

E3 ubiquitin-protein ligase whose activity is dependent on E2 enzymes, UBE2D1, UBE2D2, UBE2E1 and UBE2E2. 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. Component of cullin-RING-based SCF (SKP1-CUL1-F-box protein) E3 ubiquitin-protein ligase complexes such as SCF(SKP2)-like complexes. 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. Monoubiquitinates IKBKB that will negatively regulates Tax-induced NF-kappa-B signaling. Negatively regulates IFN-beta production post-pathogen recognition by polyubiquitin-mediated degradation of IRF3. Mediates the ubiquitin-mediated proteasomal degradation of IgG1 heavy chain, which is linked to the VCP-mediated ER-associated degradation (ERAD) pathway. Promotes IRF8 ubiquitination, which enhanced the ability of IRF8 to stimulate cytokine genes transcription in macrophages. Plays a role in the regulation of the cell cycle progression. Enhances the decapping activity of DCP2. Exists as a ribonucleoprotein particle present in all mammalian cells studied and composed of a single polypeptide and one of four small RNA molecules. At least two isoforms are present in nucleated and red blood cells, and tissue specific differences in RO/SSA proteins have been identified. The common feature of these proteins is their ability to bind HY RNAs.2. Involved in the regulation of innate immunity and the inflammatory response in response to IFNG/IFN-gamma. 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. Acts as an autophagy receptor for the degradation of IRF3, hence attenuating type I interferon (IFN)-dependent immune responses. Represses the innate antiviral response by facilitating the formation of the NMI-IFI35 complex through 'Lys-63'-linked ubiquitination of NMI.

Storage

-20°C

Tag

N-6xHis

Note

For research use only

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Application notes

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 µg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Protein Sequence

MSPSTTSKMSLEKMWEVTCISICLDPMVPEPMSIECGHCFCKECEFVGKNGGSSCPECRQQ
FLLRNLRPNRHIANMVENLKQIAQNTKKSTQETHCMKHGEKLHLFCEEDGGQALCWVCAQS
GKHRDHTRVPIEEAAKVYQEKIHVVLEKLKRGKELAEKMEMDLTMQRTDWKRNIDTQKSRI
HAEFALQNSLLAQEEQRQLQRLEKDQREYLRLLGKKEAEAEKNQALQELISELERRIRGSE
LELLQEVRIILERSGSWNLDTLIDAPDLTSTCPVPGRKKMLRTCWVHITLDRNTANSWLIIS
KDRRQVRMGDTHQNVSDNKERFSNYPMVLGAQRFSSGKMYWEVDVTQKEAWDLGVCR
DSVQRKGQFSLSPENGFWTIWLWQDSYEAGTSPQTTLHIQVPPCQIGIFVDYEAGVVSFYNI
TDHGSLIYTFSECVFAGPLRPFFNVGFNYSGGNAAPLKLCLPKM

Purity

98.00%

MW

60.1 kDa (predicted)

Uniprot ID**Q62191****Expiration Date**

6 months from date of receipt.

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