



# Recombinant Human E3 ubiquitin-protein ligase TRIM21 (TRIM21)

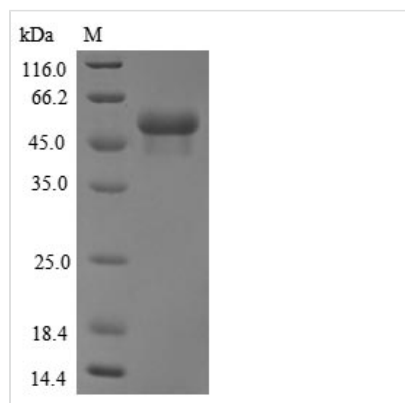
<b>Product Code</b>	CSB-EP024457HU
<b>Relevance</b>	E3 ubiquitin-protein ligase whose activity is dependent on E2 enzymes, UBE2D1, UBE2D2, UBE2E1 and UBE2E2. Forms a ubiquitin ligase complex in cooperation with the E2 UBE2D2 that is used not only for the ubiquitination of USP4 and IKBKB but also for 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. <sup>2</sup>
<b>Abbreviation</b>	Recombinant Human TRIM21 protein
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	P19474
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	Greater than 85% as determined by SDS-PAGE.
<b>Sequence</b>	MASAARLTMMWEEVTCPICLDPFVEPVSIIECGHSFCQECISQVGKGGGSVCP VCRQRFLLNLRPNRQLANMVNNLKEISQEAREGTQGERCAVHGERLHLFCE KDGKALCWVCAQSRKHRDHAMVPLEEAAQEQYQEKLQVALGELRRKQELAEK LEVEIAIKRADWKKTVETQKSRIHAEFVQQKNFLVEEEQRQLQELEKDEREQL RILGEKEAKLAQQSQALQELISELDRRCHSSALELLQEVIIVLSESWNLKDL ITSPELRSVCHVPGLKKMLRCAVHITLDPDTANPWLILSEDRRQVRLGDTQQS IPGNEERFDSYPMVLGAQHFHSGKHYYWEVDVTGKEAWDLGVCRDSVRRKGGH FLLSSKSGFWTIWLWNKQKYEAGTYPQTPLHLQVPPCQVGFILDYEAGMVSF YNITDHGSLIYSFSECAFTGPLRPFFSPGFNDGGKNTAPLTLCLNIGSQGSTD



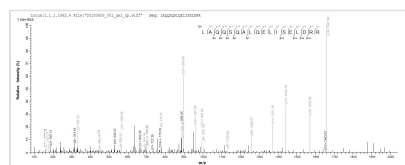
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<b>Research Area</b>	Epigenetics and Nuclear Signaling
<b>Source</b>	E.coli
<b>Target Names</b>	TRIM21
<b>Protein Names</b>	52 kDa Ro protein 52 kDa ribonucleoprotein autoantigen Ro/SS-A RING finger protein 81 RING-type E3 ubiquitin transferase TRIM21 Ro(SS-A) Sjogren syndrome type A antigen Short name: SS-A Tripartite motif-containing protein 21 RNF81, RO52, SSA1
<b>Expression Region</b>	1-475aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	N-terminal 6xHis-tagged
<b>Mol. Weight</b>	58.2 kDa
<b>Protein Length</b>	Full Length

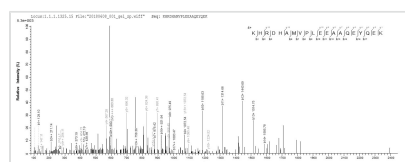
**Image**



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Based on the SEQUEST from database of E.coli host and target protein, the LC-MS/MS Analysis result of CSB-EP024457HU could indicate that this peptide derived from E.coli-expressed Homo sapiens (Human) TRIM21.



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**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

**Shelf Life**

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