

## Product datasheet

# Recombinant Human TRIM21/SS-A protein (Tagged) ab114611

1 Image

### Description

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<b>Product name</b>	Recombinant Human TRIM21/SS-A protein (Tagged)
<b>Purity</b>	>= 80 % Purified via GST Tag. Glutathione Sepharose
<b>Expression system</b>	Wheat germ
<b>Accession</b>	<b><u>P19474</u></b>
<b>Protein length</b>	Protein fragment
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Human
<b>Sequence</b>	QLANMVNNLKEISQEAREGTQGERCAVHGERLHLFCEKD GKALCWVCAQS RKHRDHAMVPLEEAAQEYQEKLQVALGELRRKQELAEKL EVEIAIKRADW KKTVETQK
<b>Predicted molecular weight</b>	38 kDa including tags
<b>Amino acids</b>	68 to 175
<b>Tags</b>	GST tag N-Terminus

### Specifications

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Our **Abpromise guarantee** covers the use of **ab114611** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	ELISA SDS-PAGE Western blot
<b>Form</b>	Liquid
<b>Additional notes</b>	This product was previously labelled as TRIM21.

### Preparation and Storage

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### Stability and Storage

Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.

pH: 8.00

Constituents: 0.3% Glutathione, 0.79% Tris HCl

## General Info

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### Function

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 regulate 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.

### Tissue specificity

Isoforms 1 and 2 are expressed in fetal and adult heart and fetal lung.

### Pathway

Protein modification; protein ubiquitination.

### Sequence similarities

Belongs to the TRIM/RBCC family.

Contains 1 B box-type zinc finger.

Contains 1 B30.2/SPRY domain.

Contains 1 RING-type zinc finger.

### Domain

The coiled-coil is necessary for the cytoplasmic localization. The B30.2/SPRY domain is necessary for the cytoplasmic localization, the interaction with IRF3 and for the IRF3-driven interferon beta promoter activity. The RING-type zinc finger is necessary for ubiquitination and for the IRF3-driven interferon beta promoter activity. Interacts with SKP2 and CUL1 in a RING finger-independent manner.

### Post-translational modifications

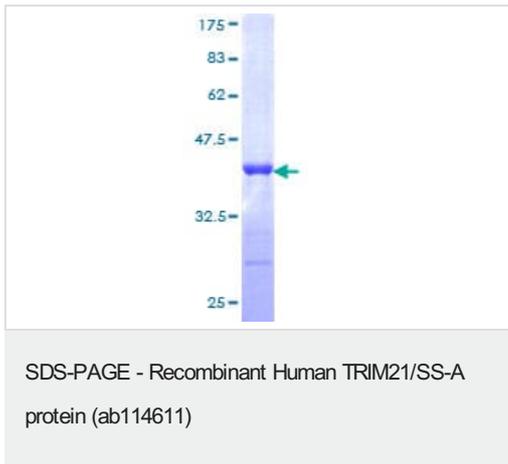
Autoubiquitinated; does not lead to its proteasomal degradation. Deubiquitinated by USP4; leading to its stabilization.

### Cellular localization

Cytoplasm. Nucleus. Cytoplasm > P-body. Enters the nucleus upon exposure to nitric oxide. Localizes to small dot- or rod-like structures in the cytoplasm, called cytoplasmic bodies (P-body) that are located underneath the plasma membrane and also diffusely in the cytoplasm and are highly motile in cells. Cytoplasmic bodies are located along the microtubules and do not share the same cytoplasmic bodies with TRIM5. Colocalizes with DCP2 in P-body.

## Images

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ab114611 analysed on a 12.5% SDS-PAGE stained with Coomassie Blue.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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