

## Rabbit Anti-TRIM21/AF350 Conjugated antibody

SL0635R-AF350

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|--------------------------|--|
| <b>Product Name</b>      | Anti-TRIM21/AF350  |
| <b>Chinese Name</b>      | AF350 标记的核糖核蛋白自身抗原抗体   |
| <b>Alias</b>             | 52 kDa ribonucleoprotein autoantigen Ro/SS-A; 52 kDa Ro protein; 52kD Ro/SSA autoantigen; Autoantigen Ro/SSA, 52-KD; E3 ubiquitin-protein ligase TRIM21; RING finger protein 81; RNF81; Ro 52; Ro(SS-A); Ro52; RO52_HUMAN; Sicca syndrome antigen A; Sjogren syndrome type A antigen; Sjogren syndrome antigen A1; Sjogren syndrome type A antigen; SS-A; SSA; SSA1: Sjogren syndrome antigen A1 (52kDa ribonucleoprotein autoantigen SS-A/Ro); TRIM21; Tripartite motif protein TRIM21; Tripartite motif-containing 21; Tripartite motif-containing protein 21. |
| <b>Research Area</b>     | immunology   |
| <b>Immunogen Species</b> | Rabbit   |
| <b>Clonality</b>         | Polyclonal   |
| <b>React Species</b>     | Human,Rat,Mouse<br>IF=1:100-500  |
| <b>Applications</b>      | not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user.  |
| <b>Molecular weight</b>  | 52kDa  |
| <b>Form</b>              | Lyophilized or Liquid  |
| <b>Concentration</b>     | 1mg/ml   |
| <b>immunogen</b>         | KLH conjugated synthetic peptide derived from human SSA N-terminus   |
| <b>Lsotype</b>           | IgG  |
| <b>Purification</b>      | affinity purified by Protein A   |
| <b>Storage Buffer</b>    | 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol  |
| <b>Storage</b>           | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.   |

**background:**

This gene encodes a member of the tripartite motif (TRIM) family. The TRIM motif includes three zinc-binding domains, a RING, a B-box type 1 and a B-box type 2, and a coiled-coil region. The encoded protein is part of the RoSSA ribonucleoprotein, which includes a single polypeptide and one of four small RNA molecules. The RoSSA particle localizes to both the cytoplasm and the nucleus. RoSSA interacts with autoantigens in patients with Sjogren syndrome and systemic lupus erythematosus. Alternatively spliced transcript variants for this gene have been described but the full-length nature of only one has been determined. [provided by RefSeq, Jul 2008].

**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 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.

**Product Detail**

**Subunit:**

Interacts (via C-terminus) with IRF8 (via C-terminus). Component of a SCF(SKP2)-like complex containing CUL1, SKP1, TRIM21 and SKP2. Interacts with CALR, CUL1, FBXW11, HSPA5, IKBKB, IRF3, SKP1 and VCP. Interacts with SKP2; the interaction with SKP2 does not depend on an intact F-box domain. Interacts (via N-terminus and C-terminus) with DCP2 (via N-terminus and C-terminus).

**Subcellular Location:**

Cytoplasm. Nucleus. Cytoplasm, P-body. Note=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 motil 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.

**Tissue Specificity:**

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

**Post-translational modifications:**

Autoubiquitinated; does not lead to its proteasomal degradation.

Deubiquitinated by USP4; leading to its stabilization.

**Similarity:**

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.

**Database links:**

[Entrez Gene: 6737](#) Human

[Omim: 109092](#) Human

[SwissProt: P19474](#) Human

[Unigene: 532357](#) Human

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

SSA/RO 广泛应用于各种自身免疫性疾病检测.