SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

Rabbit Anti-TRIM21 antibody

SL0635R

Product Name	TRIM21
Chinese Name	核糖核蛋白自身抗原抗体
Alias	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; Sjoegren 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.
Research Area	immunology
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human,Rat,Mouse
Applications	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	52kDa
Cellular localization	The nucleus cytoplasmic
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human TRIM21 N-terminus: 301-400/475
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

Attention

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

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Product Detail

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.

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.

SWISS:
P19474

Gene ID:
6737

Database links:

Entrez Gene: 6737 Human

Omim: 109092 Human

SwissProt: P19474 Human

Unigene: 532357 Human

SSA/RO 广泛应用于各种自身免疫性疾病检测.

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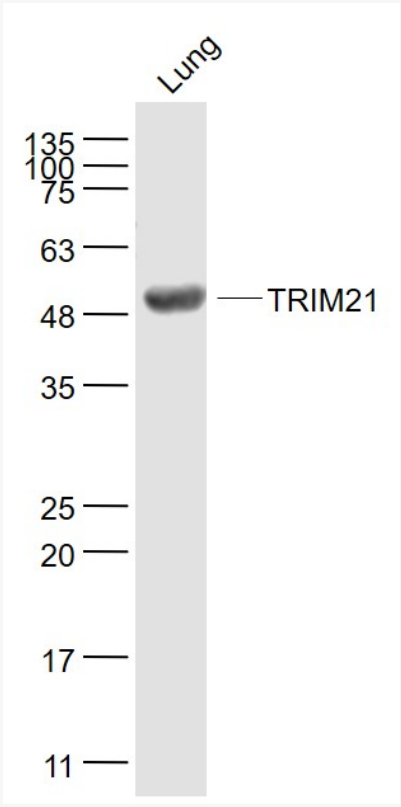
Product Picture



Sample:

Lung (Mouse) Lysate at 40 ug

Primary: Anti- TRIM21 (SL0635R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 52 kD

Observed band size: 52 kD

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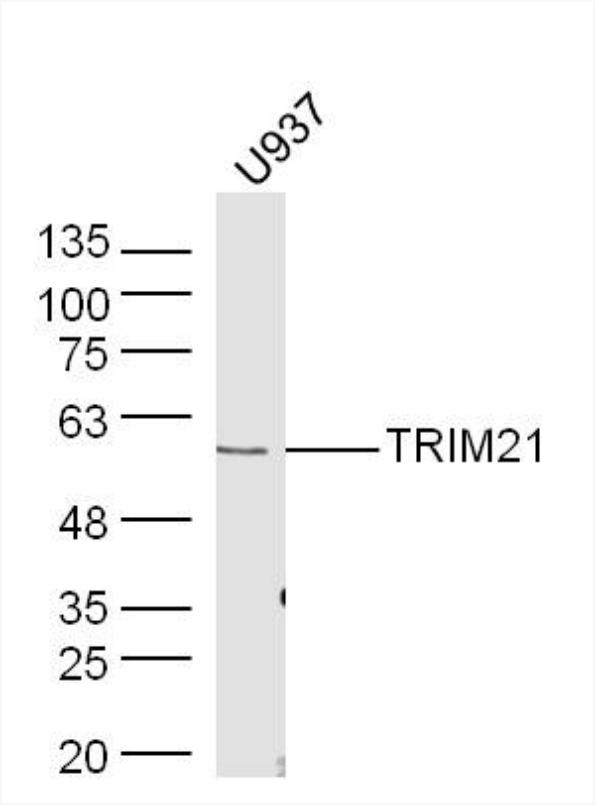

Sample: U937 Cell Lysate at 40 ug

Primary: Anti-TRIM21 (SL0635R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 52 kD

Observed band size: 56 kD

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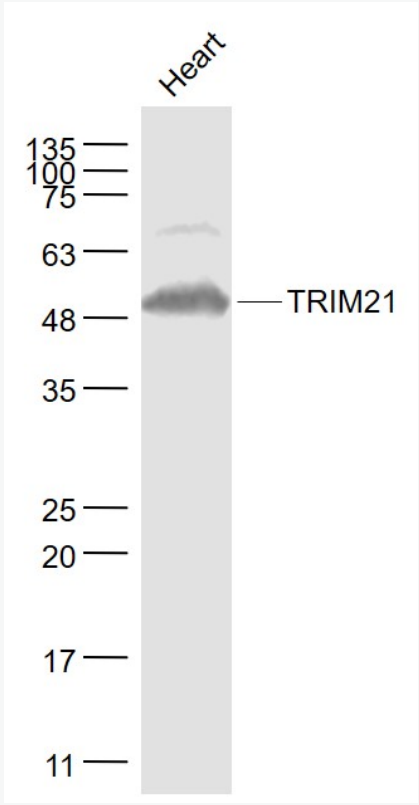

Sample:

Heart (Mouse) Lysate at 40 ug

Primary: Anti- TRIM21 (SL0635R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 52 kD

Observed band size: 52 kD