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Datasheet for 600-401-FN8

# TRIM21 Antibody

## Overview

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| **Description:** | Anti-TRIM21 (RABBIT) Antibody - 600-401-FN8 |
| **Item No.:** | 600-401-FN8 |
| **Size:** | 100 µg |
| **Applications:** | ELISA, IF, IHC, WB |
| **Reactivity:** | Human |
| **Host Species:** | Rabbit |

## Product Details

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| **Background:** | TRIM21, a member of the tripartite motif (TRIM) family, is a 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 (1). RoSSA interacts with autoantigens in patients with Sjogren syndrome and systemic lupus erythematosus (2). TRIM21 also acts as a cytosolic antibody receptor; detection of intracellular antibodies activate immune signaling by stimulating the transcription factor pathways of NF-kappaB, AP-1, IRF3, IRF5, and IRF7, resulting in the production of proinflammatory cytokines and the induction of an antiviral state (3). |
| **Synonyms:** | TRIM21 Antibody, SSA, RO52, SSA1, RNF81, Ro/SSA, E3 ubiquitin-protein ligase TRIM21, 52 kDa Ro protein, SS-A |
| **Host Species:** | Rabbit |
| **Clonality:** | Polyclonal |
| **Format:** | IgG |

## Target Details

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| **Gene Name:** | TRIM21 |
| **Reactivity:** | Human |
| **Immunogen Type:** | Conjugated Peptide |
| **Immunogen:** | Anti-TRIM21 antibody was prepared from whole rabbit serum produced by repeated immunizations with an 16 amino acid peptide near the internal region of human TRIM21. |

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| **Purity/Specificity:** | Anti-TRIM21 antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. TRIM21 antibody is human specific. This antibody is predicted to not cross-react with TRIM6. |
| **Relevant Links:** | • UniProtKB - P19474<br>• GeneID - 6737<br>• NCBI - NP_003132.2 |

## Application Details

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| **Tested Applications:** | ELISA, IF, IHC, WB |
| **Application Note:** | Anti-TRIM21 Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 54 kDa in Western Blots of specific cell lysates and tissues. |
| **Assay Dilutions:** | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below. |
| **ELISA:** | 1:5000-1:10000 |
| **IF:** | 20 µg/mL |
| **IHC:** | 5 µg/mL |
| **WB:** | 0.5-1 µg/mL |

## Formulation

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| **Physical State:** | Liquid (sterile filtered) |
| **Concentration:** | 1.0 mg/mL by UV absorbance at 280 nm |
| **Buffer:** | 0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2 |
| **Preservative:** | 0.02% (w/v) Sodium Azide |
| **Stabilizer:** | None |

## Shipping & Handling

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| **Shipping Condition:** | Dry Ice |

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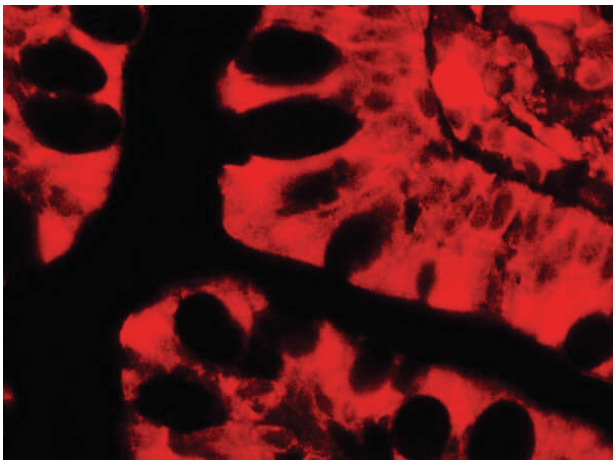
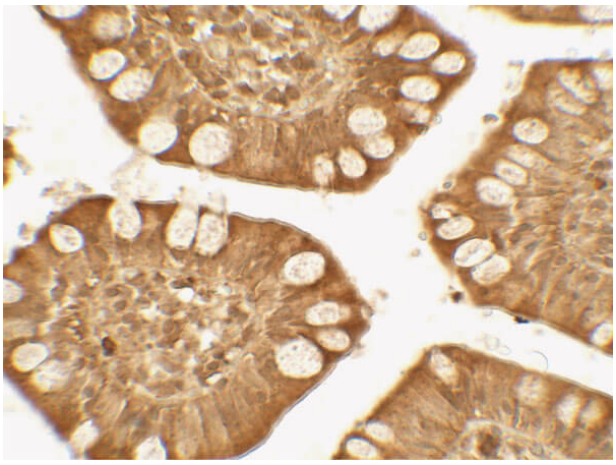
| **Storage Condition:** | Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. |
| **Expiration:** | Expiration date is one (1) year from date of receipt. |

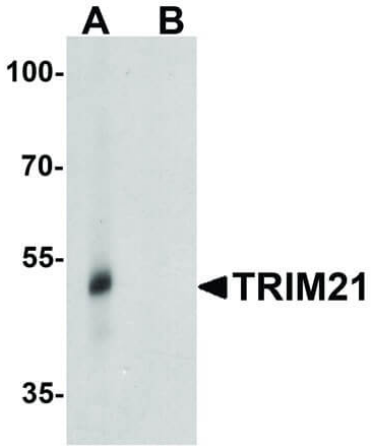
## Images



**Immunofluorescence Microscopy**
Immunofluorescence Microscopy of Rabbit anti-TRIM21 antibody. Tissue: human small intestine. Primary antibody: TRIM21 antibody at 20 µg/mL. Secondary antibody: Fluorescein rabbit secondary antibody at 1:20,000. Localization: TRIM21 is cytoplasmic and nuclear. Staining: TRIM21 as red fluorescent signal.



**Immunohistochemistry**
Immunohistochemistry of Rabbit anti-TRIM21 antibody. Tissue: human small intestine. Primary antibody: TRIM21 antibody at 5 µg/mL. Secondary antibody: Peroxidase rabbit secondary antibody at 1:5,000. Localization: TRIM21 is nuclear and cytoplasmic. Staining: TRIM21 as precipitated brown signal.




**Western Blot**

Western blot results of Rabbit Anti-TRIM21 Antibody. Lane A: human lung tissue lysate in the absence of blocking peptide. Lane B: human lung tissue lysate in the presence of blocking peptide. Primary Antibody: TRIM21 antibody at 0.5 µg/ml overnight at 4°C. Secondary Antibody: Goat anti-Rabbit HRP for 30min at RT. Blocking: 5% BLOTTO. Expect: ~54kDa.

## Disclaimer