

Anti-TRIM21 Antibody

Catalog Number: A02079

About TRIM21

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).

Overview

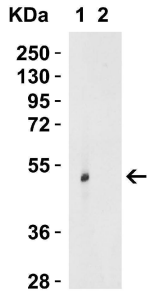
Product Name	Anti-TRIM21 Antibody
Reactive Species	Human
Description	Boster Bio Anti-TRIM21 Antibody (Catalog # A02079). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human.
Application	ELISA, IF, IHC-P, WB
Clonality	Polyclonal
Formulation	TRIM21 Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	TRIM21 antibody can be stored at 4°C for three months and -20°C, stable for up to one year.
Host	Rabbit
Uniprot ID	P19474

Technical Details

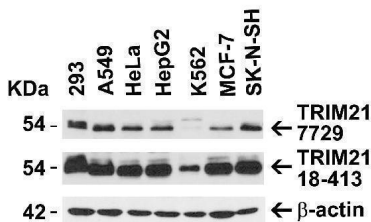
Immunogen	Anti-TRIM21 antibody was raised against a peptide corresponding to 16 amino acids near the center of human TRIM21. The immunogen is located within amino acids 290-340 of TRIM21.
Predicted Reactive Species	Bovine, Mouse, Rat
Cross Reactivity	TRIM21 antibody is human specific. This antibody is predicted to not cross-react with TRIM6.
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	TRIM21 antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	WB: 0.5-2 ug/mL; IHC: 5 ug/mL; IF: 20 ug/mL.

Antibody validated: Western Blot in human samples; Immunohistochemistry in human samples; Immunofluorescence in human samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

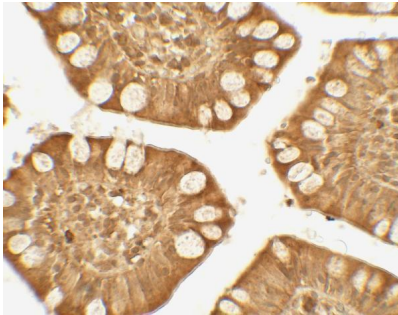
Anti-TRIM21 Antibody (A02079) Images



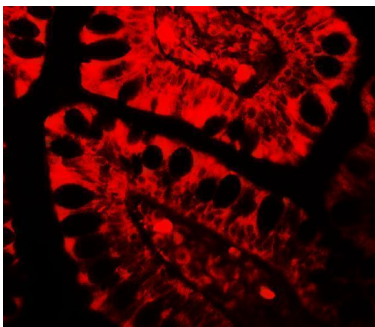
Western Blot Validation in Human Lung Tissue Lysate in (Lane 1) the absence and (Lane 2) the presence of blocking peptide Loading: 15 ug of lysates per lane. Antibodies: TRIM21, A02079 (0.5 ug/mL), 1h incubation at RT in 5% NFDm/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



Independent Antibody Validation (IAV) via Protein Expression Profile in Human Cell Lines Loading: 15 ug of lysates per lane. Antibodies: TRIM21, A02079 (0.5 ug/mL), TRIM21, 18-413 (2 ug/mL), and beta-actin (1 ug/mL), 1h incubation at RT in 5% NFDm/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



Immunohistochemistry Validation of TRIM21 in Human Small Intestine Tissue Immunohistochemical analysis of paraffin-embedded human small intestine tissue using anti-TRIM21 antibody (A02079) at 5 ug/ml. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4°C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.



Immunofluorescence Validation of TRIM21 in Human Small Intestine Tissue Immunofluorescent analysis of 4% paraformaldehyde-fixed human small intestine tissue labeling TRIM21 with A02079 at 20 ug/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (red).

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