

Anti-IL-21 Antibody

Catalog Number: A00459

About IL21

A novel cytokine was recently identified in human and mouse and designated IL-21, which has significant homology to IL-2, IL-4, and IL-15. The receptor for IL-21 (IL-21R, also termed NILR for novel Interleukin receptor) is a new member of the class I cytokine receptor family. IL-21R forms a complex with the common cytokine receptor gamma chain, gammac, and mediates IL-21 signaling. IL-21 and its receptor activate JAK-STAT signaling pathway. IL-21 is expressed in activated T cells, and HL-60 and THP-1 cell lines. IL-21 plays a role in the proliferation and maturation of NK, B and T cell populations.

Overview

Product Name	Anti-IL-21 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-IL-21 Antibody (Catalog # A00459). Tested in ELISA, WB, ICC applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, ICC, WB
Clonality	Polyclonal
Formulation	IL-21 Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	IL-21 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. Avoid repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	Q9HBE4

Technical Details

Immunogen	Anti-IL-21 antibody was raised against a peptide corresponding to 15 amino acids near the center of human IL-21 precursor. The immunogen is located within the last 50 amino acids of IL-21.
Predicted Reactive Species	Bovine, Pig
Cross Reactivity	At least two isoforms of IL-21 are known to exist; this antibody will detect both isoforms. IL-21 antibody is predicted to not cross-react with other members of the interleukin protein family.
Isotype	IgG
Form	Liquid
Concentration	1 mg/ml
Purification	IL-21 Antibody is affinity chromatography purified via peptide column.



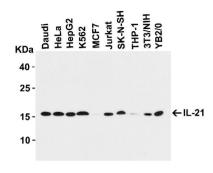
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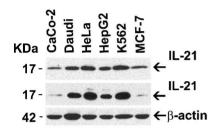
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.
	If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.
	Some PubMed article(s) citing the expression level of this target are as follows:
	Boster Bio's internal QC testing used:
	WB: 1 ug/mL; ICC: 2 ug/mL.
	Antibody validated: Western Blot in human, mouse and rat samples; Immunocytochemistry in
	human samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.



Anti-IL-21 Antibody (A00459) Images

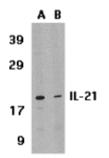


Western Blot Validation in Human, Mouse and Rat Cell Lines Loading: 15 ug of lysates per lane. Antibodies: IL-21 A00459, (1 ug/mL), 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.

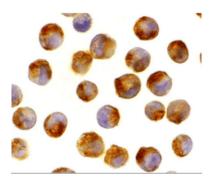


Independent Antibody Validation (IAV) via Protein Expression Profile in Cell Lines

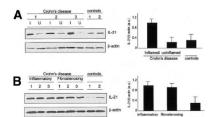
Loading: 15 ug of lysates per lane.Antibodies: IL-21 A00459 (1 ug/mL), IL-21 (5 ug/mL), beta-actin (5 ug/mL) and beta-actin (1 ug/mL), 1h incubation at RT in 5% NFDM/TBST.Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



Western Blot Validation in Human HL-60 Cell Lysate Loading: 15 ug of lysates per lane. Antibodies: IL-21 A00459 (1 ug/mL), 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.(A) Absence of blocking peptide(B) Presence of blocking peptide.



Immunocytochemistry Validation of IL-21 in K562 Cells Immunocytochemical analysis of K562 cells using anti-IL-21 antibody (A00459) at 2 ug/mL. Cells 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.



Induced Expression Validation of IL-21 expresssion in patients with Crohn's Disease (Monteleone et al



Induced Expression Validation of IL-21 expresssion in patients with Helicobacter Pylori (Hp) (Caruso et al.



Regulation of IL-21 expresssion in duodenal biopsies of two patients with active Celiac disease (ACD) (Sarra et al.

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