

Anti-IL-32 Antibody

Catalog Number: A03286-2

About IL32

Interleukin-32 (IL-32) was initially identified as a transcript (NK4) that is selectively expressed in lymphocytes and NK cells and whose expression is increased following activation by IL-2. It was later re-isolated from an IL-18-treated lung carcinoma cell line and re-named IL-32. IL-32 is unusual in that it does not share sequence homology with known cytokine families and is highly expressed in immune tissues, existing in at least four differentially spliced isoforms. Because treatment of human monocytic and mouse macrophage cells with IL-32 induces several proinflammatory cytokines such as TNF-alpha, IL-8 and MIP-2, and because it is also induced in human peripheral lymphocyte cells after mitogen stimulation and in epithelial cells by IFNgamma, it has been suggested that IL-32 may play a role in autoimmune and inflammatory diseases such as rheumatoid arthritis.

Overview

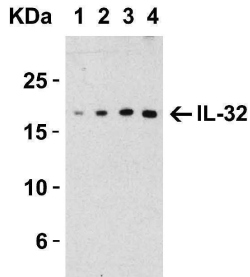
Product Name	Anti-IL-32 Antibody
Reactive Species	Human
Description	Boster Bio Anti-IL-32 Antibody (Catalog # A03286-2). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human.
Application	ELISA, IF, IHC-P, WB
Clonality	Polyclonal
Formulation	IL-32 Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	IL-32 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	P24001

Technical Details

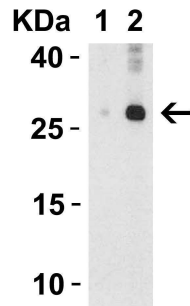
Immunogen	Anti-IL-32 antibody was raised against a peptide corresponding to 15 amino acids near the carboxy terminus of human IL-32. The immunogen is located within the last 50 amino acids of IL-32.
Predicted Reactive Species	Rat
Cross Reactivity	This antibody detects all isoforms of IL-32.
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL

Purification	IL-32 Antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	WB: 0.5-4 ug/mL; IHC: 2-10 ug/mL; IF: 20 ug/mL. Antibody validated: Western Blot in human samples; Immunohistochemistry in human and mouse samples; Immunofluorescence in human samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

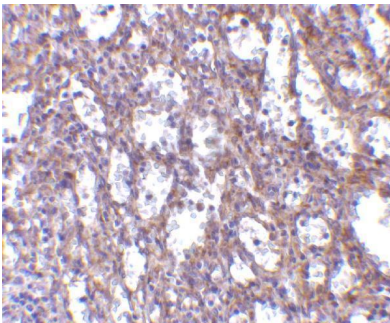
Anti-IL-32 Antibody (A03286-2) Images



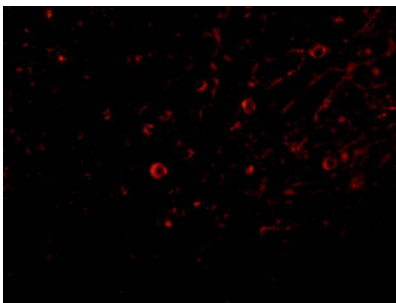
Western Blot Validation with Recombinant Protein Loading: 30 ng of human IL-32 recombinant protein per lane. Antibodies: IL-32, A03286-2 (Lane 1: 0.5 ug/mL, Lane 2: 1 ug/mL, Lane 3: 2 ug/mL and Lane 4: 4 ug/mL), 1h incubation at RT in 5% NFDN/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution. Observed at around 17kD.



Western Blot Validation in Human Spleen Lysate, showing two isoforms of IL-32 Loading: 15 ug of lysates per lane. Antibodies: IL-32, A03286-2 (lane 1: 2 ug/mL and lane 2: 4 ug/mL), 1h incubation at RT in 5% NFDN/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.

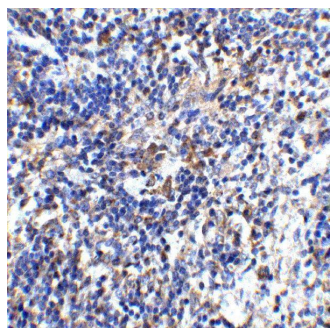


Immunohistochemistry Validation of IL-32 in Human Spleen Tissue Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti-IL-32 antibody (A03286-2) at 10 ug/ml. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation 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 IL-32 in Human Spleen Cells Immunofluorescent analysis of 4% paraformaldehyde-fixed human spleen cells labeling IL-32 with A03286-2 at 20 ug/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (red).

Immunohistochemistry Validation of IL-32 in Mouse Spleen Tissue Immunohistochemical analysis of paraffin-embedded mouse spleen tissue using anti-IL-32 antibody (A03286-2) at 2 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.

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Anti-IL-32 Antibody

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