

Anti-IL33 Antibody Picoband®

Catalog Number: A00113

About IL33

Interleukin 33 (IL-33) is a protein that in humans is encoded by the IL33 gene. The protein encoded by this gene is a cytokine that binds to the IL1RL1/ST2 receptor. The encoded protein is involved in the maturation of Th2 cells and the activation of mast cells, basophils, eosinophils and natural killer cells. Several transcript variants encoding different isoforms have been found for this gene.

Overview

Product Name	Anti-IL33 Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-IL33 Antibody Picoband® catalog # A00113. Tested in ELISA, IHC, WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	IHC, WB, ELISA (Cap)
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , and 0.05 mg NaN ₃ . *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	O95760

Technical Details

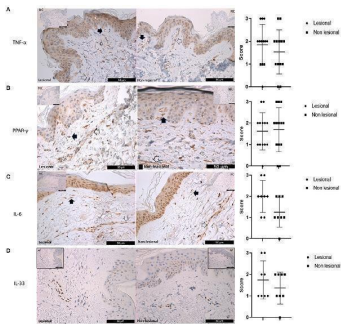
Immunogen	E. coli-derived human IL33 recombinant protein (Position: A95-T270).
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG

Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml ELISA (Cap), 1-5ug/ml

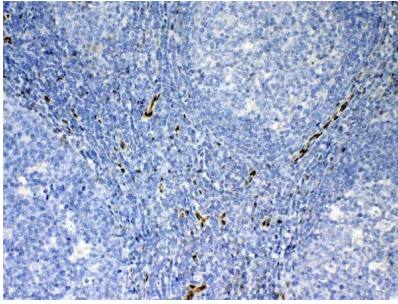
Anti-IL33 Antibody Picoband® (A00113) Images



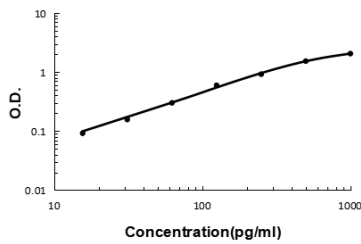
Western blot analysis of IL33 using anti-IL33 antibody (A00113). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. Lane 1: recombinant human IL33 protein 1ng. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-IL33 antigen affinity purified polyclonal antibody (Catalog # A00113) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for IL33 at approximately 18KD. The expected band size for IL33 is at 18KD.



Immunohistochemistry analysis of TNF-alpha, PPAR-gamma, IL-6, and IL-33 in lesional and non-lesional skin samples of patients with dermatomyositis. (A) TNF-alpha: Left panel: Expression of TNF-alpha in lesional and non-lesional dermatomyositis skin samples. The cytoplasmic expression is similar in the keratinocytes, dendritic cells (black arrow), and endothelial cells (empty arrow). Top right and left corners: Negative controls were obtained by omitting the primary antibody. Right panel: Statistical analysis of semi-quantitative measurements; (independent sample t -test; $p > 0.1$). (B) PPAR-gamma: Left panel: Expression of PPAR-gamma in lesional and non-lesional dermatomyositis skin samples. There is no difference between the lesional and non-lesional DM skin samples in the expression of the PPAR-gamma. Empty arrow: endothelial cells. Black arrow: dendritic cells. Top right and left corners: Negative controls were obtained by omitting the primary antibody. Right panel: Statistical analysis of semi-quantitative measurements; (independent sample t -test; $p > 0.1$). (C) IL-6: Left panel: Expression of IL-6 in lesional and non-lesional dermatomyositis skin samples. Strong cytoplasmic/nuclear reaction with IL-6 in the epidermal endothelial (empty arrow) and dendritic cells (black arrow). Top right and left corners: Negative controls were obtained by omitting the primary antibody. Right panel: Statistical analysis of semi-quantitative measurements; (independent sample t -test; $p > 0.1$). (D) IL-33: Expression of IL-33 in lesional and non-lesional dermatomyositis skin samples. Positive reaction was detected in the nucleus of endothelial cells with IL-33, but there was no significant difference between lesional and non-lesional DM skin samples. Top right and left corners: Negative controls were obtained by omitting the primary antibody. Right panel: Statistical analysis of semi-quantitative measurements; (independent sample t -test; $p > 0.1$). Index in PubMed under a CC BY license. PMID: 37250649



IHC analysis of IL33 using anti-IL33 antibody (A00113). IL33 was detected in paraffin-embedded section of human tonsil. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-IL33 Antibody (A00113) overnight at 4. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37. The tissue section was developed using Streptavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.



Sandwich ELISA - Recombinant human IL33 protein standard curve. Use in combination with reagents from Human IL33 ELISA Kit EZ-Set (DIY Antibody Pairs) (EZ0929).

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Anti-IL33 Antibody

For Research Use Only. Not for use in diagnostic procedures.