

Anti-IL18 Antibody Picoband®

Catalog Number: PB9245

About IL18

[Interleukin-18](#), also known as IL18, is a protein which in humans is encoded by the IL18 gene. IL-18 is a cytokine produced by macrophages and other cells that belongs to the IL-1 superfamily. It is mapped to 11q22.2-q22.3. IL-18 works by binding to the interleukin-18 receptor, and together with IL-12, it induces cell-mediated immunity following infection with microbial products like lipopolysaccharide (LPS). After stimulation with IL-18, natural killer (NK) cells and certain T cells release another important cytokine called interferon-gamma (IFN-gamma) or type II interferon that plays an important role in activating the macrophages or other cells. The combination of this cytokine and IL12 has been shown to inhibit IL4 dependent IgE and IgG1 production, and enhance IgG2a production in B cells.

Overview

Product Name	Anti-IL18 Antibody Picoband®
Reactive Species	Mouse
Description	Boster Bio Anti-IL18 Antibody Picoband® catalog # PB9245. Tested in WB applications. This antibody reacts with Mouse. 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	WB
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 Na ₃ N. *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	P70380

Technical Details

Immunogen	E.coli-derived mouse IL-18 recombinant protein (Position: N36-S192). Mouse IL-18 shares 66% and 91% amino acid (aa) sequence identity with human and rat IL-18, respectively.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western

	blot.
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, Mouse

Anti-IL18 Antibody Picoband® (PB9245) Images



Anti-IL-18 Picoband antibody, PB9245, Western blotting All lanes: Anti IL-18 (PB9245) at 0.5ug/ml WB: Recombinant Mouse IL-18 Protein 0.5ng Predicted bind size: 22KD Observed bind size: 22KD



Anti-IL-18 Picoband antibody, PB9245, Western blotting All lanes: Anti IL-18 (PB9245) at 0.5ug/ml WB: NIH3T3 Whole Cell Lysate at 40ug Predicted bind size: 22KD Observed bind size: 50KD

3 Publications Citing This Product

1. PubMed ID: 25049723, Si Lf, Zhang Sy, Gao Cs, Chen Sl, Zhao J, Cheng Xc. Asian-Australas J Anim Sci. 2013 Oct;26(10):1399-405. Doi: 10.5713/Ajas.2013.13101. Effects Of Ifn-?? On Il-18 Expression In Pregnant Rats And Pregnancy Outcomes.
2. PubMed ID: 21920610, Wang Y, Zhang X, Zhang Y, Xu H, Fang G. J Reprod Immunol. 2011 Dec;92(1-2):45-53. Doi: 10.1016/J.Jri.2011.07.002. Epub 2011 Sep 13. Expression And Localization Of Il-18 In The Hypothalamic-Pituitary-Ovarian Axis Of Non-Pregnant, Pregnant, And Abor...
3. PubMed ID: 16052682, Yang Yj, Shen Y, Chen Sh, Ge Xr. World J Gastroenterol. 2005 Aug 7;11(29):4524-9. Role Of Interleukin 18 In Acute Lung Inflammation Induced By Gut Ischemia Reperfusion.

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Anti-IL18 Antibody

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