

## Anti-IL18 Antibody Picoband®

Catalog Number: PB9014

### About IL18

Interleukin (IL)-18, also called Interferon-gamma-inducing factor (IGIF), augments natural killer (NK) activity in spleen cells. The gene encodes a precursor protein of 192 amino acids and a mature protein of 157 amino acids. IL18 is a recently discovered cytokine that modulates both T helper type 1 (Th1) and Th2 responses. IL18 is a potent proinflammatory cytokine with potential atherogenic properties. It is highly expressed in the atherosclerotic plaques compared with control normal arteries and is localized mainly in plaque macrophages.

### Overview

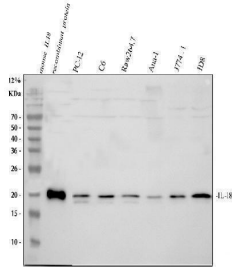
Product Name	Anti-IL18 Antibody Picoband®
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-IL18 Antibody Picoband® catalog # PB9014. Tested in ELISA, IHC, WB applications. This antibody reacts with Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, 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	ELISA, IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .
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	P97636

### Technical Details

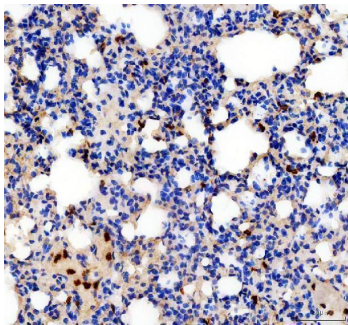
Immunogen	E.coli-derived rat IL-18 recombinant protein (Position: H37-S194). Rat IL-18 shares 64% and 91% amino acid (aa) sequences identity with human and mouse IL-18, respectively.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western 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, 0.25-0.5ug/ml, Mouse, Rat Immunohistochemistry (Paraffin-embedded Section), 2-5ug/ml, Mouse ELISA, 0.1-0.5ug/ml,-

## Anti-IL18 Antibody Picoband® (PB9014) Images



Western blot analysis of IL18 using anti-IL18 antibody (PB9014). Electrophoresis was performed on a 13% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: recombinant mouse IL18 protein lysates, Lane 2: rat PC-12 whole cell lysates, Lane 3: rat C6 whole cell lysates, Lane 4: mouse RAW264.7 whole cell lysates, Lane 5: mouse ANA-1 whole cell lysates, Lane 6: mouse J774.1 whole cell lysates, Lane 7: mouse ID8 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA 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-IL18 antigen affinity purified polyclonal antibody (Catalog # PB9014) 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 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for IL18 at approximately 22 kDa. The expected band size for IL18 is at 22 kDa.



IHC analysis of IL18 using anti-IL18 antibody (PB9014). IL18 was detected in a paraffin-embedded section of mouse lung tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-IL18 Antibody (PB9014) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

## 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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