BOSTER BIOLOGICAL TECHNOLOGY
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Anti-IL8/CXCL8 Antibody Picoband®

Catalog Number: PA1353

About CXCL8

Interleukin-8 (IL-8) is a chemokine produced by macrophages and other cell types such as epithelial cells. It is also synthesized by endothelial cells, which store IL-8 in their storage vesicles, the Weibel-Palade bodies. In humans, the interleukin-8 protein is encoded by the IL8 gene. Interleukin-8 (IL8) is a member of the CXC chemokine family (Hull et al., 2001). IL-8 is believed to play a role in the pathogenesis of bronchiolitis, a common respiratory tract disease caused by viral infection. This gene and other ten members of the CXC chemokine gene family form a chemokine gene cluster in a region mapped to chromosome 4q. The genes for IL8 have been co-localized on a 335-kb genomic fragment.

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Overview

Product Name	Anti-IL8/CXCL8 Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-IL8/CXCL8 Antibody catalog # PA1353. Tested in 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
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na2HPO4.
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	P10145

Technical Details

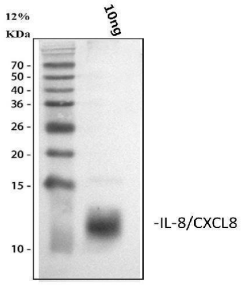
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human IL8.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western

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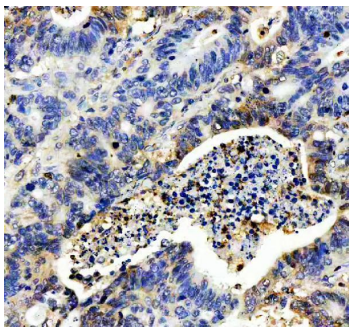
	blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml, Human Immunohistochemistry (Paraffin-embedded Section), 2-5ug/ml, Human

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Anti-IL8/CXCL8 Antibody Picoband® (PA1353) Images



Western blot analysis of IL8 using anti-IL8 antibody (PA1353). 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 IL8 protein 10ng. 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-IL8 antigen affinity purified polyclonal antibody (Catalog # PA1353) 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 Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for GH1 at approximately 11 kDa.



IHC analysis of IL8 using anti-IL8 antibody (PA1353). IL8 was detected in a paraffin-embedded section of human stomach cancer 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-IL8 Antibody (PA1353) 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.

47 Publications Citing This Product

1. PubMed ID: 23382627, Liu W, Shan Lp, Dong Xs, Liu Xw, Ma T, Liu Z. World J Gastroenterol. 2013 Jan 28;19(4):492-502. Doi: 10.3748/Wjg.V19.I4.492. Combined Early Fluid Resuscitation And Hydrogen Inhalation Attenuates Lung And Intestine Injury.

2. PubMed ID: 25428340, Yu Zm, Liu Zh, Chen J, Zeng Q. Chin J Integr Med. 2014 Dec;20(12):934-43. Doi: 10.1007/S11655-014-1863-X. Epub 2014 Nov 27. Anti-Inflammatory Effect Of Qingwen Baidu Decoction (????????????

3. PubMed ID: 25807257, Zhang H, Xia X, Han F, Jiang Q, Rong Y, Song D, Wang Y. Mol Pharm. 2015 May 4;12(5):1648-61. Doi: 10.1021/Acs.Molpharmaceut.5B00069. Epub 2015 Apr 2. Cathelicidin-Bf, A Novel Antimicrobial Peptide From Bungarus Fasciatus, Attenuates Disease In A D...

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