BOSTER
antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
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Anti-IL8/CXCL8 Antibody Picoband™

Catalog Number: PB9621

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. 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.

Overview

Product Name	Anti-IL8/CXCL8 Antibody Picoband™
Reactive Species	Human
Description	Boster Bio Anti-IL8/CXCL8 Antibody Picoband™ catalog # PB9621. Tested in ELISA, IHC-P, WB applications. This antibody reacts with Human.
Application	ELISA, IHC-P, WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
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	E. coli-derived human IL-8 recombinant protein (Position: A23-S99).
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

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Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 µg/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used Western blot, 0.1-0.5µg/ml, Human Immunohistochemistry (Paraffin-embedded Section), 0.5-1µg/ml, Human, By Heat ELISA , 0.1-0.5µg/ml, Human, - For protocols please visit https://www.bosterbio.com/protocol-and-troubleshooting/

Anti-IL8/CXCL8 Antibody Picoband™ (PB9621) Images

Figure 1. Western blot analysis of IL-8 using anti-IL-8 antibody (PB9621).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.
Lane 1: HELA whole cell lysates,
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-IL-8 antigen affinity purified polyclonal antibody (Catalog # PB9621) 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 IL-8 at approximately 34KD. The expected band size for IL-8 is at 11KD.

Figure 2. IHC analysis of IL-8 using anti-IL-8 antibody (PB9621).
IL-8 was detected in paraffin-embedded section of human appendicitis tissues. 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

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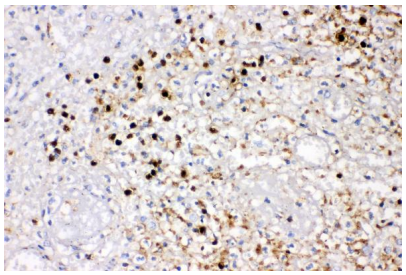

rabbit anti-IL-8 Antibody (PB9621) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.

38 Publications Citing This Product

1. PubMed ID: 33550074, Hou J,Lei Z,Cui L,Hou Y,Yang L,An R,Wang Q,Li S,Zhang H,Zhang L.Polystyrene microplastics lead to pyroptosis and apoptosis of ovarian granulosa cells via NLRP3/Caspase-1 signaling pathway in rats.Ecotoxicol Environ Saf.2021 Feb 4;212:112012.doi:10.1016/j.

2. PubMed ID: 25317156, Neuroprotective effect of pretreatment with ganoderma lucidum in cerebral ischemia/reperfusion injury in rat hippocampus

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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