

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

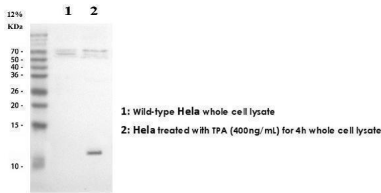
Product Name	Anti-IL8/CXCL8 Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-IL8/CXCL8 Antibody Picoband® catalog # PB9621. Tested in ELISA, IHC, WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, 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	ELISA, IHC, 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 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	P10145

Technical Details

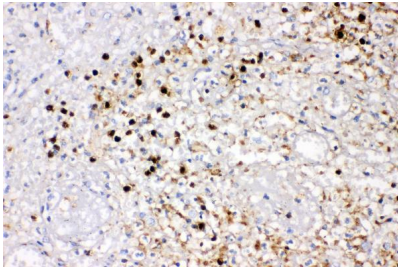
Immunogen	E. coli-derived human IL-8 recombinant protein (Position: A23-S99).
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross-reactivity with other proteins

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), 0.5-1ug/ml, Human ELISA, 0.1-0.5ug/ml, -

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



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 30 ug of sample under reducing conditions. Lane 1: wild-type HeLa whole cell lysate, Lane 2: HeLa treated with TPA (400 ng/mL) for 4h whole cell lysate. 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-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 1:5000 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 IL-8 at approximately 11 kDa. The expected band size for IL-8 is at 11 kDa.



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 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 Streptavidin-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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