

**Anti-IL-8 Picoband Antibody**  
Catalog # ABO12307**Specification****Anti-IL-8 Picoband Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P10145</a>
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for Interleukin-8(CXCL8) detection. Tested with WB, ELISA in Human.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-IL-8 Picoband Antibody - Additional Information**

**Gene ID** 3576

**Other Names**

Interleukin-8, IL-8, C-X-C motif chemokine 8, Chemokine (C-X-C motif) ligand 8, Emoctakin, Granulocyte chemotactic protein 1, GCP-1, Monocyte-derived neutrophil chemotactic factor, MDNCF, Monocyte-derived neutrophil-activating peptide, MONAP, Neutrophil-activating protein 1, NAP-1, Protein 3-10C, T-cell chemotactic factor, MDNCF-a, GCP/IL-8 protein IV, IL8/NAP1 form I, Interleukin-8, (Ala-IL-8)77, GCP/IL-8 protein II, IL-8(1-77), IL8/NAP1 form II, MDNCF-b, IL-8(5-77), IL-8(6-77), (Ser-IL-8)72, GCP/IL-8 protein I, IL8/NAP1 form III, Lymphocyte-derived neutrophil-activating factor, LYNAP, MDNCF-c, Neutrophil-activating factor, NAF, IL-8(7-77), GCP/IL-8 protein V, IL8/NAP1 form IV, IL-8(8-77), GCP/IL-8 protein VI, IL8/NAP1 form V, IL-8(9-77), GCP/IL-8 protein III, IL8/NAP1 form VI, CXCL8, IL8

**Calculated MW**

11098 MW KDa

**Application Details**

ELISA , 0.1-0.5 µg/ml, Human, -<br>Western blot, 0.1-0.5 µg/ml, Human<br>

**Subcellular Localization**

Secreted.

**Protein Name**

Interleukin-8

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Na<sub>3</sub>N.

**Immunogen**

E. coli-derived human IL-8 recombinant protein (Position: A23-S99).

#### **Purification**

Immunogen affinity purified.

#### **Cross Reactivity**

No cross reactivity with other proteins

#### **Storage**

**At -20°C for one year. After r<sup>o</sup>Constitution, at 4°C for one month. It°Can also be aliquotted and stored frozen at -20°C for a longer time.Avoid repeated freezing and thawing.**

### **Anti-IL-8 Picoband Antibody - Protein Information**

**Name** CXCL8

**Synonyms** IL8

#### **Function**

Chemotactic factor that mediates inflammatory response by attracting neutrophils, basophils, and T-cells to clear pathogens and protect the host from infection (PubMed:<a href="http://www.uniprot.org/citations/18692776" target="\_blank">18692776</a>, PubMed:<a href="http://www.uniprot.org/citations/7636208" target="\_blank">7636208</a>). Also plays an important role in neutrophil activation (PubMed:<a href="http://www.uniprot.org/citations/2145175" target="\_blank">2145175</a>, PubMed:<a href="http://www.uniprot.org/citations/9623510" target="\_blank">9623510</a>). Released in response to an inflammatory stimulus, exerts its effect by binding to the G-protein-coupled receptors CXCR1 and CXCR2, primarily found in neutrophils, monocytes and endothelial cells (PubMed:<a href="http://www.uniprot.org/citations/1840701" target="\_blank">1840701</a>, PubMed:<a href="http://www.uniprot.org/citations/1891716" target="\_blank">1891716</a>). G-protein heterotrimer (alpha, beta, gamma subunits) constitutively binds to CXCR1/CXCR2 receptor and activation by IL8 leads to beta and gamma subunits release from Galpha (GNAI2 in neutrophils) and activation of several downstream signaling pathways including PI3K and MAPK pathways (PubMed:<a href="http://www.uniprot.org/citations/11971003" target="\_blank">11971003</a>, PubMed:<a href="http://www.uniprot.org/citations/8662698" target="\_blank">8662698</a>).

#### **Cellular Location**

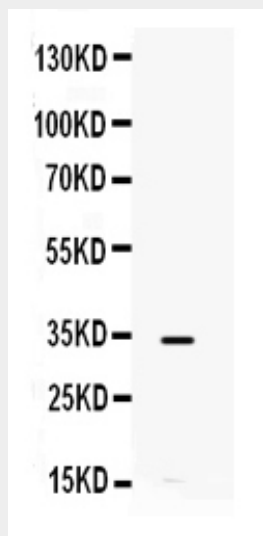
Secreted.

### **Anti-IL-8 Picoband Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### Anti-IL-8 Picoband Antibody - Images



Anti- IL-8 Picoband antibody, ABO12307, Western blotting All lanes: Anti IL-8 (ABO12307) at 0.5ug/ml WB: HELA Whole Cell Lysate at 40ug Predicted bind size: 11KD Observed bind size: 34KD

### Anti-IL-8 Picoband Antibody - Background

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.