

Product Data Sheet

□ Cat # AB-11110

Mouse Anti-Human Interleukin-8 IgG

Size: 100 ug

Interleukin-8 (IL-8) is a chemokine produced by macrophages and other cell types such as epithelial cells, airway smooth muscle cells and endothelial cells. It serves as a chemical signal that attracts neutrophils at the site of inflammation, and therefore is also known as Neutrophil Chemotactic Factor. It is an important mediator of the immune reaction in the innate immune system response.

In humans, the interleukin-8 protein is encoded by the IL8 gene. IL-8 is initially produced as a precursor peptide of 99 amino acids long which then undergoes cleavage to create several active IL-8 isoforms.

IL-8, has two primary functions. It induces chemo taxis in target cells (Neutrophils, endothelial cells, macrophages, mast cells, and keratinocytes), causing them to migrate toward the site of infection. IL-8 also induces phagocytosis once they have arrived. IL-8 is also known to be a potent promoter of angiogenesis. In target cells, IL-8 induces a series of physiological responses required for migration and phagocytosis, such as increases in intracellular Ca<sup>2+</sup>, exocytosis (e.g. histamine release), and the respiratory burst.

IL-8 can be secreted by any cells with toll-like receptors that are involved in the innate immune response. Macrophages are the first cells to release IL-8 to recruit other cells. Both monomer and homodimer forms of IL-8 have been reported to be potent inducers of the chemokine receptors CXCR1 and CXCR2.

Interleukin-8 is often associated with inflammation. it has been cited as a proinflammatory mediator in gingivitis and psoriasis. IL-8 is believed to play a role in the pathogenesis of bronchiolitis, a common respiratory tract disease caused by viral infection.

**Synonyms:**

IL-8, CXCL8, Monocyte-derived neutrophil chemotactic factor, MDNCF, T-cell chemotactic factor, Neutrophil-activating protein 1, NAP-1, Protein 3-10C, Granulocyte chemotactic protein 1, GCP-1, Monocyte-derived neutrophil-activating peptide, MONAP, Emoctakin, K60, NAF, LECT, LUCT, 3-10C, LYNAP, SCYB8, TSG-1, AMCF-I, b-ENAP.

**Source of Antigen and Antibodies**

<b>Antigen</b>	Recombinant Human IL-8
<b>Ab Host/type</b>	BALB/c mice, isotype: IgG1, purified by ion exchange
<b>-ve control IgG</b>	Cat # 20008-1, Mouse (non-immune) Serum IgG, purified, suitable for ELISA, Western, IHC as -ve control

**Shipping Conditions:**

Antibody is shipped lyophilized at ambient temperature or in solution at 4oC.

**Storage Procedures:**

In lyophilized form, for long periods, store at 4oC in a dry environment. After reconstitution, if not intended for use within a month, aliquot and store at -20oC.

**Reconstitution:**

Reconstitute with H2O. Mix gently, wash the sides of the vial and wait 30-60 seconds before use.

**Stability / Shelf Life:** 1- Year lyophilized, 6 month in solution at 4oC.

**Applications:** Direct ELISA, Western Blot, Immune precipitation, Immunohistochemistry.

**Cross reactivity:** No cross reactivity with murine IL-8 was detected.

**Reference:** Hedges JC (2000). Am. J. Respir. Cell Mol. Biol. 23 (1): 86-94; Brat DJ (2005) Neuro-oncology. 7(2) 122-133; Haake, (2002) Clinical Periodontology, 9th Edition.

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**Related items:**

AB-10210	Mouse Anti-Human Interleukin-2 IgG
AB-10310	Rat Anti-Mouse Interleukin-2 receptor IgG
AB-10410	Mouse Anti-Human Interleukin-2 receptor IgG
AB-10510	Rat Anti-Mouse Interleukin-2 IgG
AB-10610	Mouse Anti-Human Interleukin-3 IgG
AB-10710	Mouse Anti-Human Interleukin-4 IgG
AB-10810	Rat Anti-Mouse Interleukin-4 IgG
AB-10910	Mouse Anti-Human Interleukin-6 IgG
AB-11010	Mouse Anti-Human Interleukin-7 IgG
AB-11110	Mouse Anti-Human Interleukin-8 IgG
AB-11210	Mouse Anti-Human Interleukin-10 IgG
AB-11310	Rat Anti-Mouse Interleukin-10 IgG
AB-11410	Rat Anti-Mouse Interleukin-12p40 IgG
AB-11510	Mouse Anti-Human Interleukin-15 IgG

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