

## Anti-IL-8 [WS-4] Bulk Size Ab03214-1.1-BT

This chimeric mouse antibody was made using the variable domain sequences of the original Human IgG1 format for improved compatibility with existing reagents assays and techniques.

**Isotype and Format:** Mouse IgG1, Kappa

**Clone Number:** WS-4

**Alternative Name(s) of Target:** IL8; Interleukin-8; CXCL8; C-X-C motif chemokine 8; Chemokine (C-X-C motif) ligand 8; Emotakin; 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

**UniProt Accession Number of Target Protein:** P10145

**Published Application(s):** neutralize, ELISA, IHC

**Published Species Reactivity:** Rabbit, Human

**Immunogen:** The original antibody was generated by immunizing BALB/c mice with human IL-8. This reshaped WS-4 antibody was generated by grafting CDRs of mouse monoclonal antibody onto human framework regions.

**Specificity:** This antibody binds human IL-8, which is a chemotactic factor that attracts neutrophils, basophils, and T-cells, but not monocytes. It is also involved in neutrophil activation. It is released from several cell types in response to an inflammatory stimulus. This antibody cross reacts with rabbit IL-8.

**Application Notes:** This antibody was used in the generation of a very sensitive ELISA for the detection of human IL-8 in various body fluids. The original mouse version of this antibody has a detection limit of 16 pg/ml in an ELISA. This antibody can bind both the 72 and 77 amino acid forms of IL-8 produced by cultured human cells and cell lines stimulated with IL-1 (PMID: 1593135). The neutralization activity of this antibody towards IL-8 was studied in a rabbit model of severe acute pancreatitis. It was reported that this antibody can reduce the acute lung injury, presumably through inhibition of circulating IL-8 and TNF-alpha, and CD11b/CD18 in lung tissue (PMID: 10189850). This antibody can neutralize rabbit IL-8 in vivo (PMID: 8347559). The effect of neutralizing antibody on IL-8 enhanced infectious cytomegalovirus (CMV) production was examined and it was reported that this antibody reduced virus production nearly to unstimulated levels at 1,000 ng/ml (PMID: 7933146). This antibody was used in the immunohistochemical staining and immuno-localization of IL-8 in tissue sections taken from intestinal loops of patients infected with either M90T or BS176 strains of Shigella flexneri (PMID: 10024597).

**Antibody First Published in:** Ko et al. A sensitive enzyme-linked immunosorbent assay for human

interleukin-8. J Immunol Methods. 1992 May 18;149(2):227-35. [PMID:1593135](#)

**Note on publication:** Describes the development of a sensitive ELISA for detection of human IL-8 in a sample.

## Product Form

**Size:** 1 mg Purified antibody in bulk size.

**Purification:** Protein A affinity purified

**Supplied In:** PBS only.

**Storage Recommendation:** Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. For longer storage, aliquot and store at -20°C.

**Concentration:** 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.