

Anti-IL-8 [WS-4] Standard Size Ab03214-3.3

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

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 IgG2b, Fc Silent™, 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: 200 µg Purified antibody.

Purification: Protein A affinity purified

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. 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.