

Anti-IL-8 [WS-4] Bulk Size Ab03214-10.3-BT

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

Isotype and Format: Human IgG1, 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: 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.