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## Mouse Anti-Human IL-8 Monoclonal Antibody Datasheet

**Product Name:** mAb anti-Human IL-8

**Clone No.:** I8-S2

**Catalogue No.:** MO-C40017A

**Quantity:** 0.5 mg/vial

**Description:** Mouse monoclonal antibody to human interleukin 8 (IL-8)

**Purification:** Protein G affinity purified

**Product Type:** Primary antibody, **capture** antibody in matched antibody pair.

**Target Protein:** Human IL-8

**Immunogen:** Purified recombinant human IL-8

**Fusion Myeloma:** Sp2/0-Ag14

**Specificity:** This antibody recognizes both natural and recombinant human IL-8

**Species Reactivity:** Human, others not tested

**Cross-reactivity:** This antibody does not cross react with human Monocyte Chemotactic Activating Factor (MCAF) or RANTES (Regulated on Activation, Normal T-cell Expressed, and Secreted).

**Host / Isotype:** Mouse, IgG2b Kappa

**Formulation:** Lyophilized from a solution in 0.01M PBS, pH 7.0

**Reconstitution:** Double distilled water is recommended to adjust the final concentration to 1.00mg/mL

**Storage:** Store at -20°C

**Research Area:** Cytokine, interleukin and chemotaxis

**Background:** Interleukin 8 (IL-8), like IL-6, is secreted by macrophages and a variety of cells that express Toll-like receptors in response to the stimulation of pathogens. IL-8's

primary function is to recruit neutrophils and other target cells through chemotaxis to the infected site to eliminate pathogens. IL-8 causes increased intracellular Ca<sup>2+</sup>, release of reactive oxygen species, and other physiological changes required for migration and phagocytosis. IL-8 is also known to promote angiogenesis.

### Applications

**ELISA:** The antibody matches with clone I8-60 (Cat. No: MO-C40017D) in sandwich ELISA.

**Neutralization:** In chemotaxis assay, the antibody inhibited 97.8% % of the chemotactic activity of IL-8 on RB/293 cell. 5µg/mL of antibody and 10ng/mL of human IL-8 were used in the assay. This antibody inhibited the chemotactic effect of human IL-8, but had no inhibitory effect to MIP 1-beta and RANTES in neutrophil chemotaxis assay. The antibody also neutralized IL-8 induced calcium influx in human granulocytes.

**Western Blot:** The antibody, when used at 0.02-0.1µg/mL concentration will allow visualization of 100ng/lane of recombinant human IL-8.

**Figure:** Western blot analysis of recombinant human IL-8 using clone I8-S2.



### References:

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