



Mouse Anti-Human IL-8 Monoclonal Antibody Datasheet

Product Name: mAb anti-Human IL-8

Clone No.: 257

Lot No.:

Catalogue No.: MO-C40017F

Quantity: 0.5 mg/vial ×

Expiration:

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

Purification: Protein G affinity purified

Product Type: Primary antibody

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, IgG1 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 Ca²⁺, release of reactive oxygen species, and other physiological changes required for migration and phagocytosis. IL-8 is also known to promote angiogenesis.

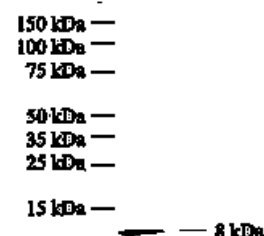
Applications:

ELISA: React with human IL-8.

Neutralizing: In chemotaxis assay, the antibody inhibited 95.1% of the chemotactic activity of IL-8 on RB/293 cell. 50µg/mL of antibody and 10ng/ml of human IL-8 were used in assay. This antibody inhibited the chemotactic effect of human IL-8, and had no inhibitory effect to MIP 1-beta and RANTES in neutrophil chemotaxis assay, indicating that the neutralizing activity is specific. 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 257.



References:

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