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Mouse Anti-Human IL-8 Monoclonal Antibody Datasheet

Product Name: mAb anti-Human IL-8

Clone No.: 257

Catalogue No.: MO-C40017F

Quantity: 0.5 mg/vial

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/O-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 Chemoattractant 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

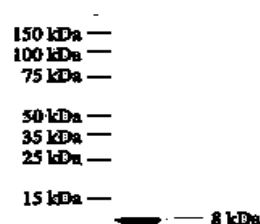
Background: Interleukin 8 (IL-8), like IL-6, is secreted by macrophages and a variety of cells that express Toll-like receptors in response to the stimulation of pathogens. IL-8's primary function is to recruit neutrophils

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:

If research is published using this product, please inform Anogen in order to cite the reference on this datasheet. Anogen will provide one unit of product in the same category as gratitude.

This product is for **LABORATORY RESEARCH USE** and further manufacture **ONLY**, and cannot be administered to human and animals for use in diagnostic and therapeutic procedures.

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