



Mouse Anti-Human IL-8 Monoclonal Antibody Datasheet

Product Name: mAb anti-Human IL-8

Clone No.: 807

Catalogue No.: MO-C40017G

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: Sp2/0-Ag14

Specificity: This antibody recognizes both recombinant and native 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 0.01M K₂HPO₄ – KH₂PO₄ buffer, 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 anti-human IL-8 mAb 807.



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.

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