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2355 Derry Road East, Unit 23, Mississauga, ON, Canada L5S 1V6 • Tel: (905) 677-9221 • Fax: (905) 677-0023

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

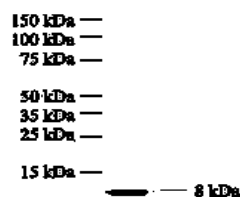
Applications

ELISA: 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:

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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