



Mouse Anti-Human IL-8 Monoclonal Antibody Datasheet

Product Name: mAb anti-Human IL-8

Clone No.: I8-60

Catalogue No.: MO-C40017D

Quantity: 0.5 mg/vial

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

Purification: Protein G affinity purified

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

Target Protein: Human IL-8

Immunogen: Purified recombinant human IL-8

Fusion Myeloma: P3X63Ag8.653

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 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

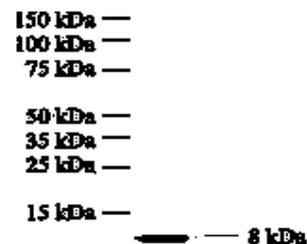
function is to recruit neutrophils and other target cells through chemotaxis to the infected site to eliminate pathogens. IL-8 causes increased intracellular Ca²⁺, release of reactive oxygen species, and other physiological changes required for migration and phagocytosis. IL-8 is also known to promote angiogenesis.

Applications

ELISA: This antibody can be used as detection antibody in sandwich ELISA applications for human IL-8 detection in combination with a monoclonal capture antibody (Cat No: MO-C40017A).

Neutralizing: In chemotaxis assay, the antibody inhibited 98.4% of the chemotactic activity of IL-8 on RB/293 cell using 5µg/mL of antibody and 10ng/mL of human IL-8 in assay. This antibody inhibited the chemotactic effect of human IL-8, had no inhibitory effect to MIP 1-bata and RANTES in neutrophil chemotaxis assay, indicating that the antibody's neutralization activity is specific. The antibody also neutralized IL-8 induced calcium influx in human granulocytes.

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



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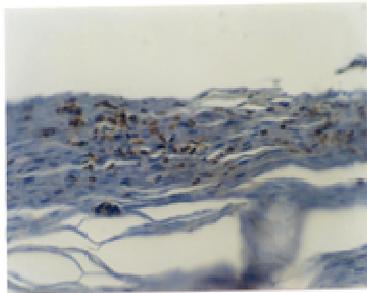
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IHC: The antibody was used to detect IL-8 expression in the stratum corneum of psoriatic skin tissue. The image below shows the result of detecting with anti-IL-8 clone 60, biotinylated 2nd antibody and avidin-HRP. The specimen was stained with DAB substrate for 5~10 min, and counter-stained with hematoxylin.



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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