

Product datasheet

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ARG10007 anti-IL8 antibody [807]

Package: 100 μg Store at: -20°C

Summary

Product Description Mouse Monoclonal antibody [807] recognizes IL8

Tested Reactivity Hu

Tested Application ELISA, Neut, WB

Specificity Does not cross react with human Monocyte Chemotactic Activating Factor (MCAF) or RANTES

(Regulated on Activation, Normal T-cell Expressed, and Secreted).

Host Mouse

Clonality Monoclonal

Clone 807

Isotype IgG1, kappa

Target Name IL8

Species Human

Immunogen Purified recombinant human IL-8

Conjugation Un-conjugated

Alternate Names IL8/NAP1 form IV; GCP/IL-8 protein IV; NAF; T-cell chemotactic factor; 1-77; Ala-IL-8; Interleukin-8; IL-8;

Neutrophil-activating protein 1; GCP/IL-8 protein II; IL8/NAP1 form II; GCP/IL-8 protein V; MDNCF; Protein 3-10C; Lymphocyte-derived neutrophil-activating factor; Neutrophil-activating factor; Granulocyte chemotactic protein 1; LYNAP; NAP-1; Monocyte-derived neutrophil chemotactic factor; 6-77; 7-77; C-X-C motif chemokine 8; GCP1; NAP1; Ser-IL-8; 5-77; GCP/IL-8 protein VI; IL8/NAP1 form VI; IL8/NAP1 form VI; Monocyte-derived neutrophil-activating peptide; C-X-C motif; 8-77; 9-77; LUCT; Chemokine; GCP-1; MDNCF-b; MDNCF-c; IL8/NAP1 form V; LECT; IL8/NAP1 form III; GCP/IL-8 protein III;

Emoctakin; GCP/IL-8 protein I; MONAP; IL8

Application Instructions

Application Note

ELISA: React with human IL-8. Matched pair antibodies are available.

Neutralizing: In chemotaxis assay, the antibody inhibited 95.1% of the chemotactic activity of IL-8 on RB/293 cell. $50\mu g/mL$ of antibody and 10 ng/ml of human IL-8 were used 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 the neutralizing activity is specific. The antibody also neutralized IL-8 induced calcium influx in human granulocytes.

Western Blot: The antibody when used at concentration of $0.02-0.1 \, \mu g/ml$ will allow visualization of 100 ng/lane of human IL-8.

* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

Form Liquid

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Purification Protein G affinity purified

Buffer 0.01M PBS (pH 7.0)

Concentration 1 mg/ml

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated

freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links GeneID: 3576 Human

Swiss-port # P10145 Human

Gene Symbol CXCL8

Gene Full Name chemokine (C-X-C motif) ligand 8

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.

Function IL-8 is a chemotactic factor that attracts neutrophils, basophils, and T-cells, but not monocytes. It is also

involved in neutrophil activation. It is released from several cell types in response to an inflammatory stimulus. IL-8(6-77) has a 5-10-fold higher activity on neutrophil activation, IL-8(5-77) has increased activity on neutrophil activation and IL-8(7-77) has a higher affinity to receptors CXCR1 and CXCR2 as

compared to IL-8(1-77), respectively. [UniProt]

Highlight Related products:

<u>IL8 antibodies;</u> <u>IL8 ELISA Kits;</u> <u>IL8 Duos / Panels;</u> <u>IL8 recombinant proteins;</u> <u>Anti-Mouse IgG secondary</u>

antibodies; Related news:

HMGB1 in inflammation Inflammatory Cytokines

Research Area Cancer antibody; Cell Biology and Cellular Response antibody; Immune System antibody

Calculated Mw 11 kDa

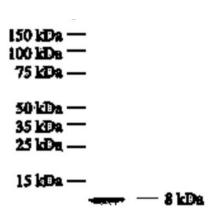
PTM Several N-terminal processed forms are produced by proteolytic cleavage after secretion from at least

peripheral blood monocytes, leukcocytes and endothelial cells. In general, IL-8(1-77) is referred to as

interleukin-8. IL-8(6-77) is the most promiment form.

Citrullination at Arg-27 prevents proteolysis, and dampens tissue inflammation, it also enhances

leukocytosis, possibly through impaired chemokine clearance from the blood circulation.



ARG10007 anti-IL8 antibody [807] WB image

Western Blot: Recombinant Human IL-8 protein stained with ARG10007 anti-IL8 antibody [807].