

ARG10005 anti-IL8 antibody [I8-S2]

Package: 100 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [I8-S2] recognizes IL8
Tested Reactivity	Hu
Tested Application	ELISA, Neut, WB
Specificity	Does not cross react with human Monocyte Chemoattractant Protein 1 (MCP-1) or RANTES (Regulated on Activation, Normal T-cell Expressed, and Secreted).
Host	Mouse
Clonality	Monoclonal
Clone	I8-S2
Isotype	IgG2b, 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; LYAP; 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 I; 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; Emotakin; GCP/IL-8 protein I; MONAP; IL8

Application Instructions

Application table	Application	Dilution
	ELISA	Assay-dependent
	Neut	5 µg/ml
	WB	0.02 - 0.1 µg/ml

Application Note

ELISA: The antibody matches with clone I8-60 (Cat. No: ARG10006) 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 10 ng/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 concentration of 0.02-0.1µg/mL antibody will allow visualization of 100 ng/lane of recombinant human IL-8.

* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations

should be determined by the scientist.

Properties

Form	Liquid
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 Ca ²⁺ , 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 Antibody Duos and Panels: ARG30070 IL8 ELISA Antibody Duo Related products: IL8 antibodies ; IL8 ELISA Kits ; IL8 Duos / Panels ; IL8 recombinant proteins ; Anti-Mouse IgG secondary 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, leukocytes and endothelial cells. In general, IL-8(1-77) is referred to as interleukin-8. IL-8(6-77) is the most prominent form. Citryllination at Arg-27 prevents proteolysis, and dampens tissue inflammation, it also enhances leukocytosis, possibly through impaired chemokine clearance from the blood circulation.