

## 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 Chemoattractant Protein 1 (MCP-1) 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 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 Note	<p>ELISA: React with human IL-8. Matched pair antibodies are available.</p> <p>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 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-beta and RANTES in neutrophil chemotaxis assay, indicating the neutralizing activity is specific. The antibody also neutralized IL-8 induced calcium influx in human granulocytes.</p> <p>Western Blot: The antibody when used at concentration of 0.02-0.1 µg/ml will allow visualization of 100 ng/lane of human IL-8.</p> <p>* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.</p>
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### 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	<a href="#">GeneID: 3576 Human</a> <a href="#">Swiss-port # P10145 Human</a>
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 <sup>2+</sup> , 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	<p>Related products:  <a href="#">IL8 antibodies</a>; <a href="#">IL8 ELISA Kits</a>; <a href="#">IL8 Duos / Panels</a>; <a href="#">IL8 recombinant proteins</a>; <a href="#">Anti-Mouse IgG secondary antibodies</a>;</p> <p>Related news:  <a href="#">HMGB1 in inflammation</a>  <a href="#">Inflammatory Cytokines</a></p>
Research Area	Cancer antibody; Cell Biology and Cellular Response antibody; Immune System antibody
Calculated Mw	11 kDa
PTM	<p>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.</p> <p>Citrullination at Arg-27 prevents proteolysis, and dampens tissue inflammation, it also enhances leukocytosis, possibly through impaired chemokine clearance from the blood circulation.</p>



ARG10007 anti-IL8 antibody [807] WB image

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