

ARG10006 anti-IL8 antibody [I8-60]

Package: 100 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [I8-60] recognizes IL8
Tested Reactivity	Hu
Tested Application	ELISA, IHC-P, 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	I8-60
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

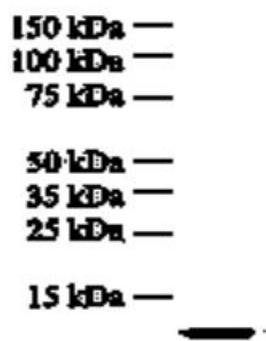
Application Note	<p>ELISA: This antibody can be used as a tracer antibody in sandwich ELISA applications for human IL-8 detection in combination with a monoclonal capture antibody (Cat No: ARG10005).</p> <p>Neutralizing: In chemotaxis assay, the antibody inhibited 98.4% of the chemotactic activity of IL-8 on RB/293 cell using 5µg/mL of antibody and 10 ng/mL of human IL-8 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 antibody's ability to neutralize IL-8 activity is specific. The antibody also neutralized IL-8 induced calcium influx in human granulocytes.</p> <p>Western Blot: Concentration of 0.02-0.1µg/mL antibody will allow visualization of 100 ng/lane of human IL-8.</p> <p>IHC-P: Used as an assay-dependent dilution. * 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
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.

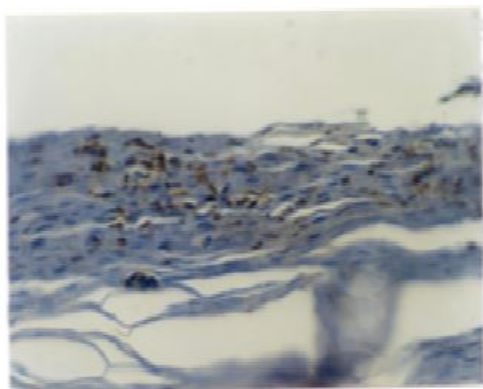
Bioinformation

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	<p>Related products:</p> <p>IL8 antibodies; IL8 ELISA Kits; IL8 Duos / Panels; IL8 recombinant proteins; Anti-Mouse IgG secondary antibodies;</p> <p>Related news:</p> <p>HMGB1 in inflammation Inflammatory Cytokines</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>



ARG10006 anti-IL8 antibody [I8-60] WB image

Western Blot: Recombinant human IL-8 stained with anti-IL8 antibody [I8-60] (ARG10006)



ARG10006 anti-IL8 antibody [I8-60] IHC-P image

Immunohistochemistry: Stratum corneum of psoriatic skin tissue stained with ARG10006 anti-IL8 antibody [I8-60] followed by incubation with Biotinylated secondary antibody and avidin-HRP. The specimen was stained with DAB substrate for 5~10 min, and counter-stained with hematoxylin.