

## Purified anti-human IL-8 Antibody

<b>Catalog# / Size</b>	511501 / 50 µg 511502 / 500 µg
<b>Clone</b>	H8A5
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	Interleukin-8, Neutrophil activating protein-1, Monocyte-derived neutrophil chemotactic factor (MDNCF), Neutrophil activating factor (NAF), Leukocyte adhesion inhibitor (LAI), Granulocyte chemotactic protein (GCP), CXCL8
<b>Isotype</b>	Mouse IgG2a, κ
<b>Description</b>	IL-8, also known as neutrophil chemotactic factor, neutrophil activating protein, and monocyte-derived neutrophil chemotactic factor, is a member of the alpha (C-X-C) subfamily of chemokines called CXCL8. In response to proinflammatory stimuli, IL-8 is produced by monocytes, macrophages, T cells, neutrophils, and fibroblasts. IL-8 promotes neutrophil chemotaxis and degranulation. The 72 amino acid IL-8 is the predominant form secreted by monocytes and lymphocytes. The H8A5 antibody recognizes the human IL-8 protein and has been shown to be useful for intracellular immunofluorescence flow cytometric analysis and as ELISA capture antibody.

### Product Details

---

<b>Reactivity</b>	Human
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
<b>Preparation</b>	The antibody was purified by affinity chromatography.
<b>Concentration</b>	0.5 mg/ml
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C.
<b>Application</b>	<a href="#">ELISA Capture - Quality tested</a>
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by <a href="#">ELISA assay</a> . For ELISA capture applications, a concentration range of 2-6 µg/ml is recommended. To obtain a linear standard curve, serial dilutions of IL-8 recombinant protein ranging from 2000 to 15 pg/ml are recommended for each ELISA plate. It is recommended that the reagent be titrated for optimal performance for each application.
<b>Application Notes</b>	<b>ELISA Detection:</b> The purified H8A5 antibody is useful as the capture antibody in a sandwich ELISA assay, when used in conjunction with the biotinylated E8N1 (Cat. No. 511404) antibody as the detection antibody. <b>Note:</b> For testing human IL-8 in serum or plasma, BioLegend's ELISA Max™ Sets are specially developed and recommended.
<b>Application References</b>	1. Sauer U, <i>et al.</i> 2011. <i>Anal Biochem.</i> 419:46. <a href="#">PubMed</a> 2. Domnanich P, <i>et al.</i> 2011. <i>Biosens Bioelectron.</i> 26:2259. <a href="#">PubMed</a> 3. Sauer U, <i>et al.</i> 2012. <i>J Immunol Methods.</i> 378:44. <a href="#">PubMed</a>
<b>(PubMed link indicates BioLegend citation)</b>	
<b>Product Citations</b>	1. Sauer U, <i>et al.</i> 2012. <i>J Immunol Methods.</i> 378:44. <a href="#">PubMed</a> 2. Sauer U, <i>et al.</i> 2011. <i>Anal Biochem.</i> 419:46. <a href="#">PubMed</a> 3. Domnanich P, <i>et al.</i> 2011. <i>Biochem Biophys Res Commun.</i> 26:2559. <a href="#">PubMed</a> 4. Gogalic S, <i>et al.</i> 2018. <i>Biosensors (Basel).</i> 9:1593. <a href="#">PubMed</a>
<b>RRID</b>	AB_893455 (BioLegend Cat. No. 511501) AB_893456 (BioLegend Cat. No. 511502)

## Antigen Details

---

<b>Structure</b>	CXC chemokine; 8.4 kD (Mammalian)
<b>Ligand/Receptor</b>	CXCR1 (CDw128); CXCR2
<b>Bioactivity</b>	Neutrophil/basophil chemoattractant; activates neutrophils, angiogenic factor
<b>Cell Sources</b>	Monocytes, lymphocytes, granulocytes, fibroblasts, endothelial cells, bronchial epithelial cells, keratinocytes, melanocytes, hepatocytes, mesangial cells, chondrocytes
<b>Cell Targets</b>	Neutrophils, basophils, lymphocytes
<b>Cell Type</b>	Tregs
<b>Biology Area</b>	Cell Biology, Immunology, Neuroinflammation, Neuroscience
<b>Molecular Family</b>	Cytokines/Chemokines
<b>Antigen References</b>	<ol style="list-style-type: none"><li>1. Fitzgerald K, <i>et al.</i> Eds. 2001. The Cytokine FactsBook. Academic Press San Diego.</li><li>2. Baggiolini M, <i>et al.</i> 1994. <i>Adv. Immunol.</i> 55:97.</li><li>3. Schröder J, <i>et al.</i> 1992. <i>Immunology Ser.</i> 57:387.</li><li>4. Zwahlen R, <i>et al.</i> 1993. <i>Intl. Rev. Expt. Pathol.</i> 34:27.</li></ol>
<b>Regulation</b>	Upregulated by IL-1, IL-7, IL-17, IFN- $\gamma$ , TNF- $\alpha$ , leukoregulin; downregulated by IL-4, TGF- $\beta$ , glucocorticoids, vitamin D3
<b>Gene ID</b>	<a href="#">3576</a>

## Related Protocols

---

[Active Protocols: Sandwich ELISA - Video](#)

[Sandwich ELISA Protocol](#)

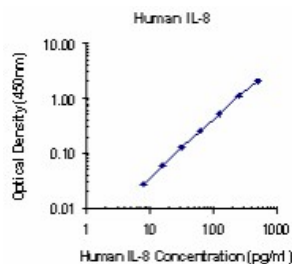
## Other Formats

---

Purified anti-human IL-8

## Product Data

---



For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.

\*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, [www.biolegend.com/ordering#license](http://www.biolegend.com/ordering#license)). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.

BioLegend Inc., 8999 BioLegend Way, San Diego, CA 92121 [www.biolegend.com](http://www.biolegend.com)  
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587

