

## APC anti-human IL-8 Antibody

<b>Catalog# / Size</b>	511410 / 100 tests
<b>Clone</b>	E8N1
<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 IgG1, $\kappa$
<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 E8N1 antibody recognizes the human IL-8 protein and has been shown to be useful for intracellular immunofluorescence flow cytometric analysis and as ELISA detection antibody.

### Product Details

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<b>Verified 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 and BSA (origin USA)
<b>Preparation</b>	The antibody was purified by affinity chromatography, and conjugated with APC under optimal conditions.
<b>Concentration</b>	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our <a href="#">Concentration and Expiration Lookup</a> or <a href="#">Certificate of Analysis</a> online tools.)
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">ICFC - Quality tested</a>
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by <a href="#">intracellular immunofluorescent staining with flow cytometric analysis</a> . For flow cytometric staining, the suggested use of this reagent is 5 $\mu$ l per million cells in 100 $\mu$ l staining volume or 5 $\mu$ l per 100 $\mu$ l of whole blood.
<b>Excitation Laser</b>	Red Laser (633 nm)
<b>Application Notes</b>	<b>ELISA Detection:</b> The biotinylated E8N1 antibody is useful as the detection antibody in a sandwich ELISA assay, when used in conjunction with the purified H8A5 (Cat. No. 511502) antibody as the capture antibody. <b>Note:</b> For testing human IL-8 in serum or plasma, BioLegend's ELISA Max™ Sets are specially developed and recommended.
<b>Product Citations</b>	<ol style="list-style-type: none"><li>1. Elliott PR, <i>et al.</i> 2021. Cell Rep. 37:109777. <a href="#">PubMed</a></li><li>2. Barua S, <i>et al.</i> 2013. Infect Immun. 81:3693. <a href="#">PubMed</a></li><li>3. Hardman CS, <i>et al.</i> 2021. Sci Immunol. 6:. <a href="#">PubMed</a></li><li>4. Saraiva DP, <i>et al.</i> 2018. Front Immunol. 2:184027778. <a href="#">PubMed</a></li><li>5. Prakash MD, <i>et al.</i> 2021. PLoS One. 16:e0247492. <a href="#">PubMed</a></li><li>6. Lever M, <i>et al.</i> 2016. Proc Natl Acad Sci U S A. 113: E6630 - E6638. <a href="#">PubMed</a></li><li>7. Vivas-García Y, <i>et al.</i> 2020. Molecular Cell. 77(1):120-137.e9.. <a href="#">PubMed</a></li></ol>
<b>RRID</b>	AB_893464 (BioLegend Cat. No. 511410)

## Antigen Details

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<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>	Neutrophils, 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. <i>The Cytokine FactsBook</i>. 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

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[Surface and Intracellular Cytokine Staining for Flow Cytometry - Video](#)

[Intracellular Flow Cytometry Staining Protocol](#)

## Other Formats

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Purified anti-human IL-8, Biotin anti-human IL-8, FITC anti-human IL-8, PE anti-human IL-8, APC anti-human IL-8, Alexa Fluor® 488 anti-human IL-8, PE/Cyanine7 anti-human IL-8, Alexa Fluor® 700 anti-human IL-8, Pacific Blue™ anti-human IL-8, PerCP/Cyanine5.5 anti-human IL-8

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