

Biotin anti-human IL-8 Antibody

Catalog# / Size	511403 / 50 µg 511404 / 500 µg
Clone	E8N1
Regulatory Status	RUO
Other Names	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
Isotype	Mouse IgG1, κ
Description	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

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography, and conjugated with biotin under optimal conditions.
Concentration	0.5 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C. Do not freeze.
Application	ELISA Detection - Quality tested ICFC - Verified
Recommended Usage	Each lot of this antibody is quality control tested by ELISA assay . For ELISA detection applications, a concentration range of 0.25-1.0 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.
Application Notes	ELISA Detection: 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. Note: For testing human IL-8 in serum or plasma, BioLegend's ELISA Max™ Sets are specially developed and recommended.
Product Citations	<ol style="list-style-type: none">Gogalic S, <i>et al.</i> 2018. Biosensors (Basel). 9:1593. PubMedSauer U, <i>et al.</i> 2011. Anal Biochem. 419:46. PubMedDomnanich P, <i>et al.</i> 2011. Biochem Biophys Res Commun. 26:2559. PubMed
RRID	AB_893457 (BioLegend Cat. No. 511403) AB_893458 (BioLegend Cat. No. 511404)

Antigen Details

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

Related Protocols

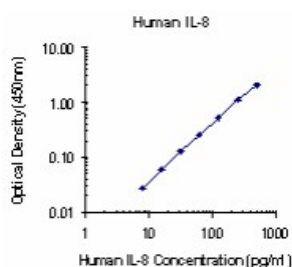
[Active Protocols: Sandwich ELISA - Video](#)

[Sandwich ELISA Protocol](#)

Other Formats

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

Product Data



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