

Ultra-LEAF™ Purified anti-mouse CXCL5 (LIX) Antibody

Catalog# / Size	662053 / 100 µg 662054 / 1 mg
Clone	A20098E
Regulatory Status	RUO
Other Names	LPS-induced CXC chemokine (LIX), granulocyte chemotactic protein-2 (GCP-2), alveolar macrophage chemotactic factor-II (AMCF-II), epithelial neutrophil-activating protein (ENA78)
Isotype	Rat IgG2b, λ
Description	CXCL5 is an ELR-CXC chemokine characterized by a Glu-Leu-Arg (ELR) motif preceding the characteristic CXC sequence. CXCL5 chemoattracts and activates neutrophils during inflammation through the binding to CXCR2. CXCL5 exists in different NH ₂ - and COOH-truncated forms, and both NH ₂ -terminal and COOH-terminal truncation result in an increase in neutrophil chemotactic potency. CXCL5 (8–78) and CXCL5 (9–78) induce a higher neutrophil influx <i>in vivo</i> compared with CXCL5 (1–78). CXCL5 regulates the availability of binding sites for other ELR-CXC chemokines released during inflammation, through its interaction with erythrocyte duffy antigen receptor (DARC). As a result, CXCL5 induces the increase of CXCL1 and CXCL2 in a model of pulmonary inflammation. Therefore, CXCL5 acts as a regulator of chemokine scavenging and pulmonary host defense to bacterial infection. Lung epithelial cells express CXCR2. Consequently, CXCL5 may modulate neutrophil transepithelial and transendothelial migration. Mouse CXCL5 is the ortholog of human CXCL6.

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	Recombinant mouse CXCL5 (LIX)
Formulation	0.2 µm filtered in phosphate-buffered solution, pH 7.2, containing no preservative. Endotoxin level is < 0.01 EU/µg of the protein (< 0.001 ng/µg of the protein) as determined by the LAL test.
Preparation	The Ultra-LEAF™ (Low Endotoxin, Azide-Free) antibody was purified by affinity chromatography.
Concentration	The antibody is bottled at the concentration indicated on the vial, typically between 2 mg/mL and 3 mg/mL. To obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C. This Ultra-LEAF™ solution contains no preservative; handle under aseptic conditions.
Application	Neut - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by neutralizing the chemotaxis induced by recombinant mouse CXCL5 (LIX) (Cat. No. 573302) at 0.8 ng/mL on mouse Baf3- mCXCR2 transfectant chemoattractant cells. ND ₅₀ range: 0.025 - 0.25 µg/mL. It is recommended that the reagent be titrated for optimal performance for each application.
RRID	AB_2910492 (BioLegend Cat. No. 662053) AB_2910492 (BioLegend Cat. No. 662054)

Antigen Details

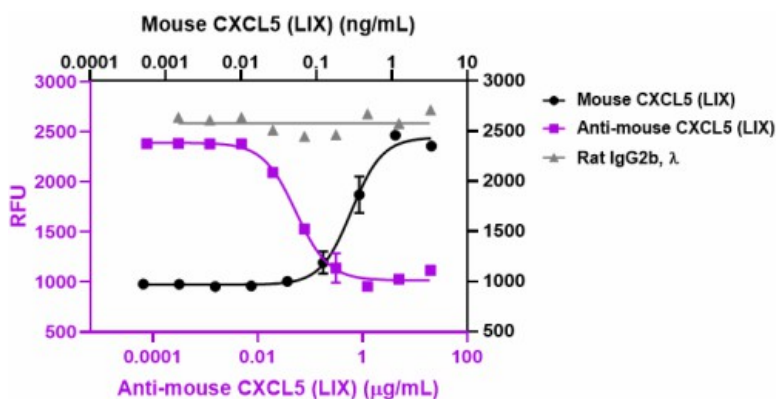
Structure	Chemokine
Distribution	Endothelial cells, fibroblasts, monocytes, macrophages, platelets, alveolar type II cells

Function	CXCL5 chemoattracts and activates neutrophils during inflammation, and it is induced by LPS and inflammatory cytokines. NH2-terminal truncation enhances, whereas citrullination decreases the chemotactic properties of CXCL5.
Interaction	Neutrophils
Ligand/Receptor	CXCR2
Antigen References	<ol style="list-style-type: none"> 1. Wuyts A, <i>et al.</i> 1999. <i>J Immunol.</i> 163:6155-63. 2. Jeyaseelan S, <i>et al.</i> 2005. <i>Am J Respir Cell Mol Biol.</i> 32:531-9. 3. Mei J, <i>et al.</i> 2010. <i>Immunity.</i> 33:106-17. 4. Montier A, <i>et al.</i> 2010. <i>J Biol Chem.</i> 285:29750-9. 5. Grommes J and Soehnlein O. 2011. <i>Mol Med.</i> 17:293-307.
Gene ID	20304

Other Formats

Ultra-LEAF™ Purified anti-mouse CXCL5 (LIX)

Product Data



Recombinant mouse CXCL5 (LIX) (Cat. No. 573302) (black circles) induces the chemotaxis of mouse Baf3-mCXCR2 transfectant chemoattractant cells. Ultra-LEAF™ purified anti-mouse CXCL5 (LIX) (clone A20098E) (purple squares) neutralizes recombinant mouse CXCL5 (LIX)-induced chemotaxis at 0.8 ng/mL on mouse Baf3-mCXCR2 cells in a dose-dependent manner, whereas the LEAF™ purified rat IgG2b, λ isotype control (gray triangles) does not have the effect. ND₅₀ range: 0.025 - 0.25 µg/mL

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