

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

<b>Catalog# / Size</b>	662053 / 100 µg 662054 / 1 mg
<b>Clone</b>	A20098E
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	LPS-induced CXC chemokine (LIX), granulocyte chemotactic protein-2 (GCP-2), alveolar macrophage chemotactic factor-II (AMCF-II), epithelial neutrophil-activating protein (ENA78)
<b>Isotype</b>	Rat IgG2b, λ
<b>Description</b>	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 <sub>2</sub> - and COOH-truncated forms, and both NH <sub>2</sub> -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

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<b>Verified Reactivity</b>	Mouse
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Rat
<b>Immunogen</b>	Recombinant mouse CXCL5 (LIX)
<b>Formulation</b>	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.
<b>Preparation</b>	The Ultra-LEAF™ (Low Endotoxin, Azide-Free) antibody was purified by affinity chromatography.
<b>Concentration</b>	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 <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. This Ultra-LEAF™ solution contains no preservative; handle under aseptic conditions.
<b>Application</b>	<a href="#">Neut - Quality tested</a>
<b>Recommended Usage</b>	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 <sub>50</sub> range: 0.025 - 0.25 µg/mL. It is recommended that the reagent be titrated for optimal performance for each application.
<b>RRID</b>	AB_2910492 (BioLegend Cat. No. 662053) AB_2910492 (BioLegend Cat. No. 662054)

### Antigen Details

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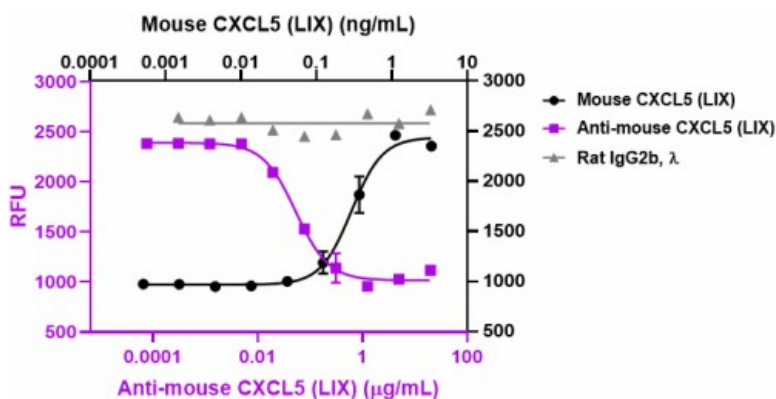
<b>Structure</b>	Chemokine
<b>Distribution</b>	Endothelial cells, fibroblasts, monocytes, macrophages, platelets, alveolar type II cells

<b>Function</b>	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.
<b>Interaction</b>	Neutrophils
<b>Ligand/Receptor</b>	CXCR2
<b>Antigen References</b>	<ol style="list-style-type: none"> <li>1. Wuyts A, <i>et al.</i> 1999. <i>J Immunol.</i> 163:6155-63.</li> <li>2. Jeyaseelan S, <i>et al.</i> 2005. <i>Am J Respir Cell Mol Biol.</i> 32:531-9.</li> <li>3. Mei J, <i>et al.</i> 2010. <i>Immunity.</i> 33:106-17.</li> <li>4. Montier A, <i>et al.</i> 2010. <i>J Biol Chem.</i> 285:29750-9.</li> <li>5. Grommes J and Soehnlein O. 2011. <i>Mol Med.</i> 17:293-307.</li> </ol>
<b>Gene ID</b>	<a href="#">20304</a>

## 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. ND<sub>50</sub> range: 0.025 - 0.25 µg/mL

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