

## Mouse C-X-C Motif Chemokine 5 (CXCL5) ELISA Kit-Sandwich

**Cat. No.:** EK6F930

**Product Type:** Animal Immunoassay Kits

**Size:** 48T;96T

### Product Overview

BioVenic Mouse C-X-C Motif Chemokine 5 (CXCL5) ELISA Kit-Sandwich is designed for the quantitative determination of Mouse CXCL5 in serum, plasma, tissue homogenate, cell culture supernatant, cell lysate, and other biological fluids using a Sandwich ELISA method. For research use only.

### Specifications

|                    |   |
|--------------------|---|
| Assay Type         | ELISA-Sandwich  |
| Specificity        | The assay kit is specific for Mouse C-X-C Motif Chemokine 5 (CXCL5).                                  |
| Target Species     | Mouse   |
| Species Reactivity | Mouse   |
| Reproducibility    | Intra-Assay: CV < 10%; Inter-Assay: CV < 12%  |
| Assay Time         | Around 90 min   |
| Sample Requirement | Serum, plasma, tissue homogenate, cell culture supernatant, cell lysate, and other biological fluids. |

### Target Information

C-X-C motif chemokine 5 is involved in recruiting inflammatory cells to injured or infected tissue. GCP-2(1-78) and, more effectively, GCP-2(9-78) attract neutrophils and play a role in their activation. In mice, Cxcl5 (C-X-C chemokine ligand 5) serves various functions related to immune regulation, inflammatory response, metabolic regulation, and tumor progression. In cases where mouse lungs were infected with the H1N1 virus, Cxcl5 expression significantly increased, while its loss led to a reduced viral load, indicating its role in antiviral immunity. Additionally, Cxcl5 enhances the immune response by recruiting B cells and promoting antibody production. In models of intestinal inflammation, the loss of Cxcl5 decreased neutrophil recruitment but increased B cell accumulation, highlighting its role in regulating immune cell dynamics.

|                  |   |
|------------------|---|
| Target/Biomarker | Mouse CXCL5   |
| Target Synonym   | C-X-C Motif Chemokine 5; Cxcl5; Cytokine LIX; Small-inducible cytokine B5 |
| Gene ID          | <a href="#">20311</a>   |
| UniProt ID       | <a href="#">P50228</a>  |

## Shipping and Storage

This product is shipped with gel ice packs. It is recommended to store at 2-8 °C (Up to 6 months).

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## Reference

Guo, Lei *et al.* "Role of CXCL5 in Regulating Chemotaxis of Innate and Adaptive Leukocytes in Infected Lungs Upon Pulmonary Influenza Infection." *Frontiers in immunology* vol. 12 785457. 18 Nov. 2021.

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