

## Rat CXCL5/LIX PicoKine ELISA Kit | Cxcl6 elisa kit

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CATALOG #  
**AAA46197**

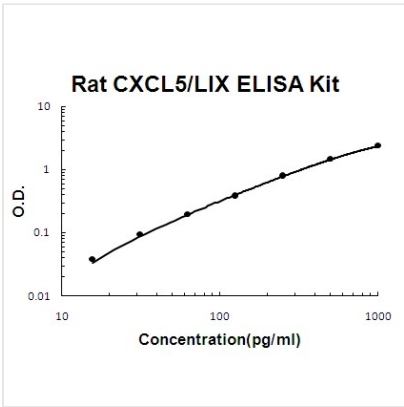
REACTIVITY  
**Rat**

### PRODUCT SYNONYMS

CXCL5/LIX PicoKine; Rat CXCL5/LIX PicoKine ELISA Kit; C-X-C motif chemokine 5; AMCFII; chemokine (C-X-C motif) ligand 5; Cxcl5; CXCL5\_HUMAN; ENA-78 (8-78); ENA-78(1-78); ENA-78(9-78); ENA78; Epithelial derived neutrophil activating peptide 78; Epithelial derived neutrophil activating protein 78; Epithelial-derived neutrophil-activating protein 78; GCP2; Lipopolysaccharide-induced CXC chemokine; LIX; Neutrophil activating peptide ENA 78; Neutrophil-activating peptide ENA-78; neutrophil-activating protein 78; SCYB5; Scyb6; Small inducible cytokine B5; small inducible cytokine subfamily B (Cys-X-Cys); member 5 (epithelial-derived neutrophil-activating peptide 78); Small inducible cytokine subfamily B member 5; small inducible cytokine subfamily B; member 5; Small-inducible cytokine B5 ; Cxcl6 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Specificity             | Natural and recombinant rat CXCL5                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Sequence Length         | 130                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Assay Range             | 15.6pg/ml-1000pg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Sensitivity             | <1pg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Sample                  | For quantitative detection of rat CXCL5 in cell culture supernates, serum, plasma(heparin, EDTA, citrate) and tissue homogenates.                                                                                                                                                                                                                                                                                                                                                                             |
| Immunogen               | E Coli, A38-Q130                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Assay Procedure Step 1  | Aliquot 0.1ml per well of the 1000pg/ml, 500pg/ml, 250pg/ml, 125pg/ml, 62.5pg/ml, 31.2pg/ml, 15.6pg/ml rat CXCL5 standard solutions into the precoated 96-well plate. Add 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml of each properly diluted sample of rat cell culture supernatants, serum, plasma(heparin, EDTA, citrate) or tissue homogenates to each empty well. It is recommended that each rat CXCL5 standard solution and each sample be measured in duplicate. |
| Intra-Assay Precision   | Inter-Assay Precision<br>Sample 1 2 3 1 2 3<br>n 16 16 16 24 24 24<br>Mean(pg/ml) 75.4 221 546 98.4 285 534<br>Standard deviation 4.1 13.7 28.4 6 20.52 31.5<br>CV(%) 5.4 6.2 5.2 6.1 7.2 5.9                                                                                                                                                                                                                                                                                                                 |
| Sample Data             | Concentration(pg/ml) 0 15.6 31.2 62.5 125 250 500 1000<br>O.D. 0.008 0.038 0.093 0.195 0.381 0.793 1.456 2.357                                                                                                                                                                                                                                                                                                                                                                                                |
| Anticoagulant           | Heparin, EDTA or Citrate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Preparation and Storage | Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                           |



Standard Curve (Sample)  
Rat CXCL5 PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for Cxcl6 elisa kit | <p>Principle of the assay: Rat CXCL5 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for CXCL5 has been precoated onto 96-well plates. Standards(E Coli, A38-Q130) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for CXCL5 is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the rat CXCL5 amount of sample captured in plate.</p> <p>Background: C-X-C motif chemokine 5 is a protein that in humans encoded by the CXCL5 gene. The protein encoded by this gene, CXCL5 is a small cytokine belonging to the CXC chemokine family that is also known as epithelial-derived neutrophil-activating peptide 78(ENA-78). It is produced following stimulation of cells with the inflammatory cytokines interleukin-1or tumor necrosis factor-alpha. Expression of CXCL5 has also been observed in eosinophils, and can be inhibited with the type II interferon IFN-gamma. This chemokine stimulates the chemotaxis of neutrophils possessing angiogenic properties. It elicits these effects by interacting with the cell surface chemokine receptor CXCR2. The gene for CXCL5 is encoded on four exons and is located on humanchromosome 4 amongst several other CXC chemokine genes. CXCL5 has been implicated in connective tissue remodeling. CXCL5 plays a role in reducing sensitivity to sunburn pain in some subjects, and is a potential target which can be utilized to understand more about pain in other inflammatory conditions like arthritis and cystitis.</p> |
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NCBI AND UNIPROT INFORMATION

|                                  |                                |
|----------------------------------|--------------------------------|
| NCBI GI #                        | 11559996                       |
| NCBI GeneID                      | 60665                          |
| NCBI Accession #                 | NP_071550.1                    |
| NCBI GenBank Nucleotide #        | NM_022214.1                    |
| UniProt Accession #              | P97885                         |
| Molecular Weight                 | 14,263 Da                      |
| NCBI Official Full Name          | C-X-C motif chemokine 5        |
| NCBI Official Synonym Full Names | C-X-C motif chemokine ligand 6 |
| NCBI Official Symbol             | Cxcl6                          |
| NCBI Official Synonym Symbols    | Cxcl5                          |
| NCBI Protein Information         | C-X-C motif chemokine 5        |

|                            |                         |
|----------------------------|-------------------------|
| UniProt Protein Name       | C-X-C motif chemokine 5 |
| UniProt Gene Name          | Cxcl5                   |
| UniProt Synonym Gene Names | Scyb5                   |
| UniProt Entry Name         | CXCL5_RAT               |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)

Online datasheet: <https://stage.aaabiotech.com/rat-elisa-kits/cxcl5-lix-picokine/46197>