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Datasheet for ABIN2859240

## CXCL3 ELISA Kit

### 1 Image

#### Overview

|                          |                 |
|--------------------------|-----------------|
| Quantity:                | 96 tests        |
| Target:                  | CXCL3           |
| Binding Specificity:     | AA 33-101       |
| Reactivity:              | Rat             |
| Method Type:             | Sandwich ELISA  |
| Detection Range:         | 15.6-1000 pg/mL |
| Minimum Detection Limit: | 15.6 pg/mL      |
| Application:             | ELISA           |

#### Product Details

|                             |   |
|-----------------------------|---|
| Purpose:                    | Sandwich High Sensitivity ELISA kit for Quantitative Detection of Rat CXCL3 |
| Brand:                      | PicoKine™   |
| Sample Type:                | Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA)            |
| Analytical Method:          | Quantitative  |
| Detection Method:           | Colorimetric  |
| Immunogen:                  | Expression system for standard: E.coli<br>Immunogen sequence: R33-S101      |
| Specificity:                | Expression system for standard: E.coli<br>Immunogen sequence: R33-S101      |
| Cross-Reactivity (Details): | There is no detectable cross-reactivity with other relevant proteins.       |

## Product Details

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Sensitivity: <10pg/mL

Material not included: Microplate reader in standard size. Automated plate washer. Adjustable pipettes and pipette tips. Multichannel pipettes are recommended in the condition of large amount of samples in the detection. Clean tubes and Eppendorf tubes. Washing buffer (neutral PBS or TBS). Preparation of 0.01M TBS: Add 1.2g Tris, 8.5g NaCl

## Target Details

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Target: CXCL3

Alternative Name: CXCL3 ([CXCL3 Products](#))

Background: Protein Function: Ligand for CXCR2 (By similarity). Has chemotactic activity for neutrophils. May play a role in inflammation and exert its effects on endothelial cells in an autocrine fashion.

Background: Chemokine (C-X-C motif) ligand 3 (CXCL3) is a small cytokine belonging to the CXC chemokine family. It is mapped to 14p2 in rat. CXCL3 controls migration and adhesion of monocytes and mediates its effects on its target cell by interacting with a cell surface chemokine receptor. It has been shown that CXCL3 regulates cell autonomously the migration of the precursors of cerebellar granule neurons toward the internal layers of cerebellum, during the morphogenesis of cerebellum. CXCL3 also play fundamental roles in the development, homeostasis and it has effects on cells of the central nervous system as well as on endothelial cells involved in angiogenesis or angiostasis.

Synonyms: C-X-C motif chemokine 3, Cytokine-induced neutrophil chemoattractant 2, CINC-2, Macrophage inflammatory protein 2-alpha/beta, MIP2-alpha/beta, Cxcl3, Cinc2,

Full Gene Name: C-X-C motif chemokine 3

Cellular Localisation: Secreted.

Gene ID: 171551

UniProt: [Q10746](#)

Pathways: [Cellular Response to Molecule of Bacterial Origin, Autophagy](#)

## Application Details

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Application Notes: Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well assay was recommended for both standard and sample testing.

Plate: Pre-coated

## Application Details

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**Protocol:** rat CXCL3 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for CXCL3 has been precoated onto 96-well plates. Standards(E.coli, R33-S101) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for CXCL3 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 CXCL3 amount of sample captured in plate.

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**Assay Procedure:** Aliquot 0.1 mL per well of the 1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL, 31.2pg/mL, 15.6pg/mL rat CXCL3 standard solutions into the precoated 96-well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of rat cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. See "Sample Dilution Guideline" above for details. It is recommended that each rat CXCL3 standard solution and each sample be measured in duplicate.

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**Assay Precision:**

- Sample 1: n=16, Mean(pg/ml): 170, Standard deviation: 13.26, CV(%): 7.8
- Sample 2: n=16, Mean(pg/ml): 375, Standard deviation: 19.5, CV(%): 5.2
- Sample 3: n=16, Mean(pg/ml): 602, Standard deviation: 27.09, CV(%): 4.5,
- Sample 1: n=24, Mean(pg/ml): 161, Standard deviation: 13.36, CV(%): 8.3
- Sample 2: n=24, Mean(pg/ml): 352, Standard deviation: 22.53, CV(%): 6.4
- Sample 3: n=24, Mean(pg/ml): 593, Standard deviation: 27.87, CV(%): 4.7

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**Restrictions:** For Research Use only

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## Handling

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**Handling Advice:** Avoid multiple freeze-thaw cycles.

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**Storage:** -20 °C, 4 °C

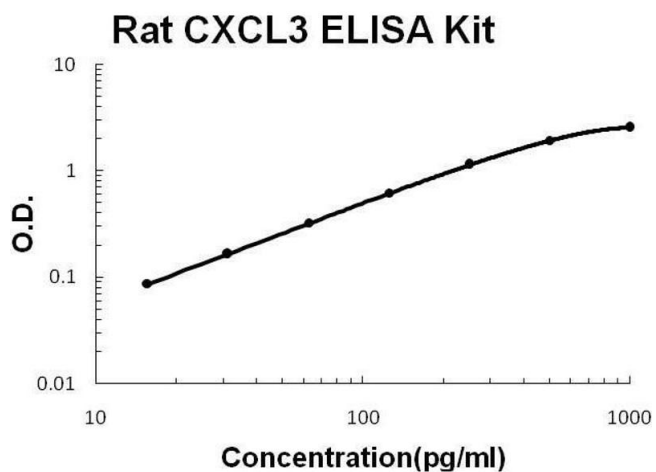
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**Storage Comment:** Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles

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**Expiry Date:** 12 months

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#### ELISA

**Image 1.** Rat CXCL3 PicoKine ELISA Kit standard curve