

## Product datasheet for PP031P2

### Cxcl1 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, FN, WB
Recommended Dilution:	<u>ELISA:</u> To detect rGRO/KC by direct ELISA (using 100 µl/well antibody solution) a concentration of at least 0.5 µg/ml of this antibody is required. This antigen affinity purified antibody allows the detection of 0.2-0.4 ng/well of recombinant rGRO/KC. <u>Western Blot:</u> To detect rGRO/KC this antibody can be used at a concentration of 0.1-0.2 µg/ml. The detection limit for recombinant rGRO/KC is 1.5-3.0 ng/lane, under either reducing or non-reducing conditions. <u>Neutralisation:</u> To yield one-half maximal inhibition of the biological activity of rat GRO/KC (100 ng/ml) a concentration of 5-10 µg/ml of this antibody is required.
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Highly pure (>98%) recombinant rGRO/KC.
Specificity:	Recognises Rat GRO/KC.
Formulation:	PBS, pH 7.2 without preservatives. State: Aff - Purified State: Lyophilized purified Ig fraction.
Reconstitution Method:	Restore in sterile water to a concentration of 0.1-1.0 mg/ml.
Purification:	Affinity chromatography.
Conjugation:	Unconjugated
Storage:	Store the antibody prior to reconstitution at -20°C. Following reconstitution the antibody can be stored at 2-8°C for one month or at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
Gene Name:	chemokine (C-X-C motif) ligand 1



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**Database Link:** [Entrez Gene 81503 Rat P14095](#)

**Background:** The GRO gene was originally identified by subtractive hybridization studies between normal and tumorigenic Chinese hamster embryo fibroblasts. The hamster cDNA was cloned and used as a probe for cloning of the human GRO cDNA. The GROalpha gene initially cloned from T24 cells and the gene in melanoma cells encoding melanoma growth stimulating protein (MGSA) are identical. Human cells contain three closely related, but distinct GRO genes: GRO alpha, GRO beta, and GRO gamma. GRO beta and GRO gamma share 93% and 82% identity, respectively, with GRO alpha at the nucleotide level. GROs are members of the chemokine alpha family that is characterized by the separation with one amino acid of the first two cysteine residues, C-X-C, in the amino acid sequence. The GRO gene has been mapped to chromosome 4q21. In normal cells, human mRNA GRO expression is found in foreskin fibroblasts, synovial fibroblasts, chondrocytes and osteocytes. Additionally, GRO mRNA has been detected in mammary fibroblasts, mammary epithelial cells, endothelial cells, activated monocytes, macrophages, and neutrophils. Characterization of the GROalpha receptor indicates the presence of low and high affinity receptors on human neutrophils.

**Synonyms:** GRO, GRO1, GROA, MGSA, SCYB1, CXCL1, MGSA, NAP-3, GRO-alpha(1-73)

**Note:** Centrifuge vial prior to opening!