

## Gro alpha Antibody / Cxcl1 (RQ4031)

Catalog No.	Formulation	Size
RQ4031	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

**Bulk quote request**

<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Mouse, Rat
<b>Format</b>	Antigen affinity purified
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal (rabbit origin)
<b>Isotype</b>	Rabbit IgG
<b>Purity</b>	Antigen affinity purified
<b>Buffer</b>	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
<b>UniProt</b>	P14095
<b>Applications</b>	Western Blot : 0.5-1ug/ml ELISA (Capture) : 0.1-0.5ug/ml
<b>Limitations</b>	This Gro alpha antibody is available for research use only.



Western blot testing of recombinant rat Gro alpha protein with Gro alpha antibody at 0.5ug/ml. Predicted molecular weight ~11 kDa.

## Description

CXCL1 (Chemokine, CXC motif, Ligand 1), also called GRO1, SCYB1, GROA or MSGA, is a small cytokine belonging to the CXC chemokine family that was previously called GRO1 oncogene, GRO?, KC, Neutrophil-activating protein 3 (NAP-3) and melanoma growth stimulating activity, alpha (MSGA-?). In humans, this protein is encoded by the CXCL1 gene. The CXCL1 gene is mapped on 4q13.3. CXCL1 is secreted by human melanoma cells, has mitogenic properties and is implicated in melanoma pathogenesis. It is expressed by macrophages, neutrophils and epithelial cells, and has neutrophil chemoattractant activity. CXCL1 plays a role in spinal cord development by inhibiting the migration of

oligodendrocyte precursors and is involved in the processes of angiogenesis, inflammation, wound healing, and tumorigenesis. Signaling through Cxcr2, Cxcl1 inhibited oligodendrocyte precursor migration. The migrational arrest was rapid, reversible, and concentration dependent, and it reflected enhanced cell/substrate interactions. White matter expression of Cxcl1 was temporospatially regulated. Others contribute to aggressive growth selectivity in the lung. Among the lung metastasis signature genes identified, several, including CXCL1, were functionally validated.

## Application Notes

Optimal dilution of the Gro alpha antibody should be determined by the researcher.

## Immunogen

A recombinant rat partial protein corresponding to amino acids A25-K96 was used as the immunogen for the Gro alpha antibody.

## Storage

After reconstitution, the Gro alpha antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.