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

Availability	1-3 business days
Species Reactivity	Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P14095
Applications	Western Blot: 0.5-1ug/ml ELISA (Capture): 0.1-0.5ug/ml
Limitations	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 MGSA, 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 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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