ARG56663
anti-CXCL1 / GRO alpha antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes CXCL1 / GRO alpha
Tested Reactivity	Rat
Tested Application	ELISA, Neut, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	CXCL1 / GRO alpha
Species	Rat
Immunogen	E.coli derived Recombinant Rat CXCL1. (APVANELRCQ CLQTVAGIHF KNIQSLKVMP PGPHCTQTEV IATLKNGREA CLDPEAPMVQ KIVQKMLKGV PK)
Conjugation	Un-conjugated
Alternate Names	Growth-regulated alpha protein; SCYB1; Melanoma growth stimulatory activity; MGSA-a; GRO-alpha; GROa; NAP-3; FSP; 5-73; C-X-C motif chemokine 1; Neutrophil-activating protein 3; 6-73; 1-73; GRO1; MGSA; 4-73

Application Instructions

Application table

Application	Dilution
ELISA	Sandwich: 0.5 - 2.0 µg/ml with ARG56773 as a detection antibody
Neut	5.0 - 10.0 µg/ml (To yield [ND50] of the biological activity of Rat GRO/KC (100 ng/ml))
WB	0.1 - 0.2 µg/ml

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

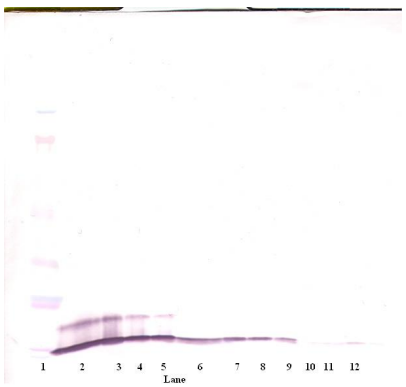
Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS (pH 7.2)
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

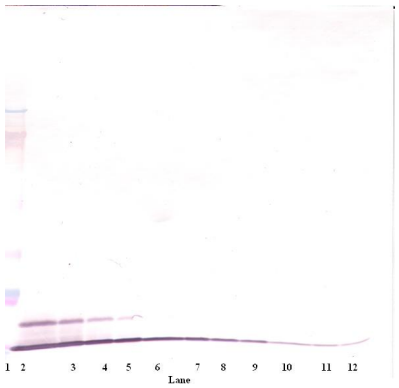
Database links	GeneID: 81503 Rat Swiss-port # P14095 Rat
Gene Symbol	Cxcl1
Gene Full Name	chemokine (C-X-C motif) ligand 1
Background	This antimicrobial gene encodes a member of the CXC subfamily of chemokines. The encoded protein is a secreted growth factor that signals through the G-protein coupled receptor, CXC receptor 2. This protein plays a role in inflammation and as a chemoattractant for neutrophils. Aberrant expression of this protein is associated with the growth and progression of certain tumors. A naturally occurring processed form of this protein has increased chemotactic activity. Alternate splicing results in coding and non-coding variants of this gene. A pseudogene of this gene is found on chromosome 4. [provided by RefSeq, Sep 2014]
Function	Has chemotactic activity for neutrophils. May play a role in inflammation and exerts its effects on endothelial cells in an autocrine fashion. In vitro, the processed forms GRO-alpha(4-73), GRO-alpha(5-73) and GRO-alpha(6-73) show a 30-fold higher chemotactic activity. [UniProt]
Calculated Mw	11 kDa
PTM	N-terminal processed forms GRO-alpha(4-73), GRO-alpha(5-73) and GRO-alpha(6-73) are produced by proteolytic cleavage after secretion from peripheral blood monocytes. [UniProt]

Images



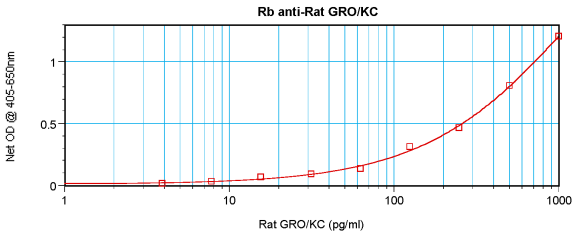
ARG56663 anti-CXCL1 / GRO alpha antibody WB image

Western blot: 250 - 0.24 ng of Rat GRO/KC stained with ARG56663 anti-CXCL1 / GRO alpha antibody, under reducing conditions.



ARG56663 anti-CXCL1 / GRO alpha antibody WB image

Western blot: 250 - 0.24 ng of Rat GRO/KC stained with ARG56663 anti-CXCL1 / GRO alpha antibody, under non-reducing conditions.



ARG56663 anti-CXCL1 / GRO alpha antibody standard curve image

Sandwich ELISA: ARG56663 anti-CXCL1 / GRO alpha antibody as a capture antibody at 0.5 - 2.0 µg/ml combined with ARG56773 anti-CXCL1 (GRO alpha) antibody (Biotin) as a detection antibody. Results of a typical standard run with optical density.