

## Rat GRO $\alpha$ /CXCL1 Antibody Pair Set

<b>Catalog No.</b>	E-KAB-0378	<b>Applications</b>	ELISA
<b>Synonyms</b>	NAP3, GRO1, GRO-A, MGSA, MGSA-A, SCYB1, FSP, CINC-1		

### Kit components & Storage

Title	Specifications	Storage
Rat GRO $\alpha$ /CXCL1 Capture Antibody	1 vial, 100 $\mu$ g	Store at -20°C for one year. Avoid freeze / thaw cycles.
Rat GRO $\alpha$ /CXCL1 Detection Antibody (Biotin)	1 vial, 50 $\mu$ L	Store at -20°C for one year. Avoid freeze / thaw cycles.

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

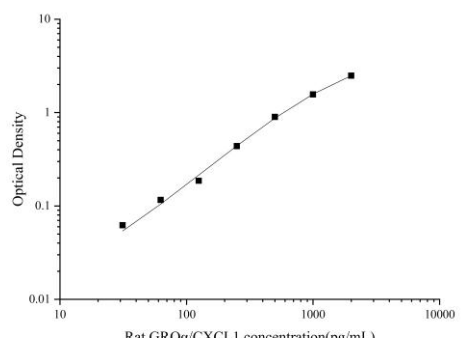
### Product Information

Items		Characteristic (E-KAB-0378)	
		Rat GRO $\alpha$ /CXCL1 Capture Antibody	Rat GRO $\alpha$ /CXCL1 Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Rat GRO $\alpha$ /CXCL1 protein	Recombinant Rat GRO $\alpha$ /CXCL1 protein
	Swissprot	P14095	
Product details	Reactivity	Rat	Rat
	Host	Goat	Goat
	Conjugation	Unconjugated	Biotin
	Concentration	0.5mg/mL	/
	Buffer	PBS with 0.04% Proclin 300, 50% glycerol, pH 7.4	PBS with 0.04% Proclin 300, 1% protective protein, 50% glycerol, pH 7.4
	Purify	Antigen Affinity	Antigen Affinity
	Specificity	Detects Rat GRO $\alpha$ /CXCL1 in ELISAs.	

### For Research Use Only

## Applications

### Rat GRO $\alpha$ /CXCL1 Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images										
ELISA Capture	0.5-4μg/mL	Rat GROα/CXCL1 Capture Antibody	 <table><caption>Approximate data points from the standard curve</caption><thead><tr><th>Rat GROα/CXCL1 concentration (pg/mL)</th><th>Optical Density</th></tr></thead><tbody><tr><td>10</td><td>0.05</td></tr><tr><td>100</td><td>0.2</td></tr><tr><td>1000</td><td>1.0</td></tr><tr><td>10000</td><td>5.0</td></tr></tbody></table>	Rat GROα/CXCL1 concentration (pg/mL)	Optical Density	10	0.05	100	0.2	1000	1.0	10000	5.0
Rat GROα/CXCL1 concentration (pg/mL)	Optical Density												
10	0.05												
100	0.2												
1000	1.0												
10000	5.0												
ELISA Detection	1:1000-1:10000	Rat GROα/CXCL1 Detection Antibody (Biotin)											

**Note:** This standard curve is only for demonstration purposes. A standard curve should be generated for each assay!

## Background

CXCL1 (C-X-C Motif Chemokine Ligand 1) is a Protein Coding gene. Diseases associated with CXCL1 include Melanoma and Bacterial Meningitis. Among its related pathways are Peptide ligand-binding receptors and Chemokine Superfamily Pathway: Human/Mouse Ligand-Receptor Interactions. GO annotations related to this gene include receptor binding and chemokine activity. An important paralog of this gene is CXCL2. 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.

## For Research Use Only