

## Anti-GRO alpha/Cxcl1 Antibody Picoband™

Catalog Number: A00533

### About Cxcl1

This gene encodes a member of the calcium dependent lectin superfamily of type II transmembrane receptors. Expression of the encoded protein is induced upon activation of T lymphocytes, and may play a role in proliferation. Furthermore, the protein may act to transmit signals in natural killer cells and platelets.

### Overview

Product Name	Anti-GRO alpha/Cxcl1 Antibody Picoband™
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-GRO alpha/Cxcl1 Antibody Picoband™ catalog # A00533. Tested in ELISA, WB applications. This antibody reacts with Mouse, Rat.
Application	ELISA, WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg NaN <sub>3</sub> .
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P14095

### Technical Details

Immunogen	E. coli-derived rat GRO alpha recombinant protein (Position: A25-K96).
Predicted Reactive Species	Chicken
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.

**Suggested Dilutions**

Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.

If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.

Some PubMed article(s) citing the expression level of this target are as follows:

Boster Bio's internal QC testing used:

Western blot, 0.1-0.5ug/ml

ELISA (Cap), 1-5ug/ml

## Anti-GRO alpha/Cxcl1 Antibody Picoband™ (A00533) Images

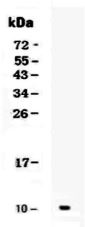


Figure 1. Western blot analysis of GRO alpha using anti-GRO alpha antibody (A00533).

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours.

Lane 1: recombinant rat CXCL1 protein 1ng.

After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-GRO alpha antigen affinity purified polyclonal antibody (Catalog # A00533) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for GRO alpha at approximately 11KD. The expected band size for GRO alpha is at 11KD.

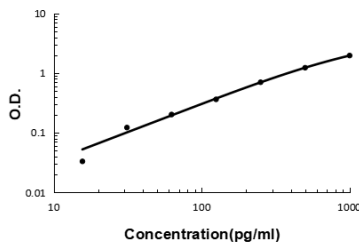


Figure 2. Sandwich ELISA - Recombinant rat GRO alpha/Cxcl1 protein standard curve.

Use in combination with reagents from Rat GRO alpha/Cxcl1 ELISA Kit EZ-Set (DIY Antibody Pairs) (EZ0724).

## 14 Publications Citing This Product

1. PubMed ID: 10.3390/ijms20184389, Effect of Tff3 Deficiency and ER Stress in the Liver
2. PubMed ID: 10.1186/s12974-019-1584-3, Activated spinal astrocytes contribute to the later phase of carrageenan-induced prostatitis pain
3. PubMed ID: 10.3389/fcimb.2019.00322, Activation of Mast Cells Promote Plasmodium berghei ANKA Infection in Murine Model

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