

Datasheet for ABIN5693092
anti-CXCL1 antibody (AA 25-96)



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Overview

Quantity:	100 µg
Target:	CXCL1
Binding Specificity:	AA 25-96
Reactivity:	Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CXCL1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Brand:	Picoband™
Immunogen:	E. coli-derived rat GRO alpha recombinant protein (Position: A25-K96).
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for GRO alpha detection. Tested with WB, ELISA(Cap) in Mouse,Rat.

Target Details

Target:	CXCL1
Alternative Name:	Cxcl1 (CXCL1 Products)
Background:	Synonyms: Growth-regulated alpha protein, C-X-C motif chemokine 1, Cytokine-induced

Target Details

neutrophil chemoattractant 1, CINC-1, Platelet-derived growth factor-inducible protein KC, Cxcl1, Cinc1, Gro, Scyb1
Tissue Specificity: At least expressed in the lung and trachea.

UniProt: [P14095](#)

Pathways: [Autophagy](#)

Application Details

Application Notes: Recommended Detection Systems: Enhanced Chemiluminescent Kit with anti-Rabbit IgG (ABIN921124) for Western blot.
Application Details: Western blot, 0.1-0.5 µg/mL
ELISA(Cap), 1-5 µg/mL

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Buffer: Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 0.05 mg NaN₃.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C,-20 °C

Storage Comment: At -20°C for one year. After reconstitution, at 4°C for one month.
It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Publications

Product cited in: Xu, Zhu, Zhang, Tian, Zhang, Wu, Gao: "NF-κB-mediated CXCL1 production in spinal cord astrocytes contributes to the maintenance of bone cancer pain in mice." in: **Journal of neuroinflammation**, Vol. 11, pp. 38, (2014) ([PubMed](#)).

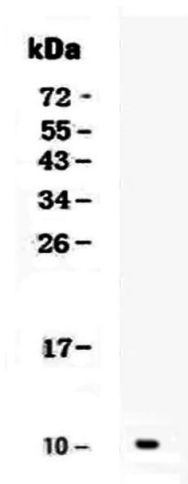
Cao, Zhang, Xie, Jiang, Ji, Gao: "Chemokine CXCL1 enhances inflammatory pain and increases

NMDA receptor activity and COX-2 expression in spinal cord neurons via activation of CXCR2." in: **Experimental neurology**, Vol. 261, pp. 328-36, (2014) ([PubMed](#)).

Chen, Park, Xie, Berta, Nedergaard, Ji: "Connexin-43 induces chemokine release from spinal cord astrocytes to maintain late-phase neuropathic pain in mice." in: **Brain : a journal of neurology**, Vol. 137, Issue Pt 8, pp. 2193-209, (2014) ([PubMed](#)).

Zhang, Cao, Zhang, Ji, Gao: "Chemokine contribution to neuropathic pain: respective induction of CXCL1 and CXCR2 in spinal cord astrocytes and neurons." in: **Pain**, Vol. 154, Issue 10, pp. 2185-97, (2013) ([PubMed](#)).

Images



Western Blotting

Image 1. Western blot analysis of GRO alpha using anti-GRO alpha antibody . 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 #) at 0.5 µg/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.