BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-CXCR2 Antibody Picoband®

Catalog Number: PA1029

About CXCR2

CXCR2 is a receptor for Interleukin 8, which is a powerful neutrophil chemotactic factor. It is a member of the GPCR family (subfamily, chemokine). Binding of IL8 to the receptor causes activation of neutrophils. This response is mediated via a G-protein that activate a phosphatidylinositol-calcium second messenger system. This receptor binds to IL8 with a high affinity and to GRO/MGSA and NAP2 also with a high affinity. It has been reported to be expressed in a wide variety of tissues. ESTs have been isolated from human placenta and thymus libraries.

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Overview

Product Name	Anti-CXCR2 Antibody Picoband®
Reactive Species	Human, Rat
Description	Boster Bio Anti-CXCR2 Antibody catalog # PA1029. Tested in WB applications. This antibody reacts with Human, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na2HPO4.
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	P25025

Technical Details

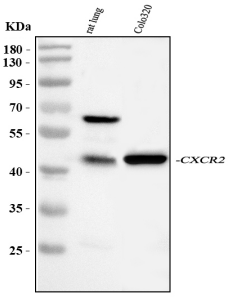
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human CXCR2, different from the related mouse sequence by six amino acids.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western

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	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	Western blot, 0.1-0.5ug/ml, Human, Rat

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Anti-CXCR2 Antibody Picoband® (PA1029) Images



Western blot analysis of CXCR2 using anti-CXCR2 antibody (PA1029). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: rat lung tissue lysates, Lane 2: human COLO320 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA 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-CXCR2 antigen affinity purified polyclonal antibody (Catalog # PA1029) 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 1:5000 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 CXCR2 at approximately 45 kDa. The expected band size for CXCR2 is at 41 kDa.

7 Publications Citing This Product

1. PubMed ID: 30404567, Cui D,Zhao Y,Xu J.Activation of CXCL5-CXCR2 axis promotes proliferation and accelerates G1 to S phase transition of papillary thyroid carcinoma cells and activates JNK and p38 pathways.Cancer Biol Ther.2019;20(5):608-616.doi:10.1080/15384047.2018.1539289.Epub 2018 Nov 7.PMID:30404567;PMCID:PMC6606038.

2. PubMed ID: 23831863, Zhang Zj, Cao Dl, Zhang X, Ji Rr, Gao Yj. Pain. 2013 Oct;154(10):2185-97. Doi: 10.1016/J.Pain.2013.07.002. Epub 2013 Jul 4. Chemokine Contribution To Neuropathic Pain: Respective Induction Of Cxcl1 And Cxcr2 In Spinal Cord Astrocytes And Neurons.

3. PubMed ID: 24919967, Chen G, Park Ck, Xie Rg, Berta T, Nedergaard M, Ji Rr. Brain. 2014 Aug;137(Pt 8):2193-209. Doi: 10.1093/Brain/Awu140. Epub 2014 Jun 11. Connexin-43 Induces Chemokine Release From Spinal Cord Astrocytes To Maintain Late-Phase Neuropathic Pain In Mice.

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Anti-CXCR2 Antibody

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