

Anti-CXCR2 Antibody Picoband™

Catalog Number: A00455-3

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.

Overview

Product Name	Anti-CXCR2 Antibody Picoband™
Reactive Species	Human
Description	Boster Bio Anti-CXCR2 Antibody Picoband™ catalog # A00455-3. Tested in ELISA, Flow Cytometry, WB applications. This antibody reacts with Human.
Application	ELISA, Flow Cytometry, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Storage Instructions	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 freezing and thawing.
Host	Rabbit
Uniprot ID	P25025

Technical Details

Immunogen	E.coli-derived human CXCR2 recombinant protein (Position: M1-Q216).
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, 0.25-0.5 ug/ml, Human

Flow Cytometry, 1-3 ug/ 1×10^6 cells, Human

Direct ELISA, 0.1-0.5 ug/ml, Human

Anti-CXCR2 Antibody Picoband™ (A00455-3) Images

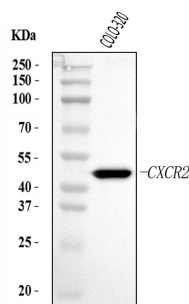


Figure 1. Western blot analysis of CXCR2 using anti-CXCR2 antibody (A00455-3).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human COLO-320 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 # A00455-3) 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 41-50 kDa. The expected band size for CXCR2 is at 41 kDa.

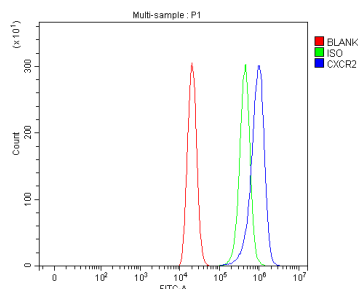


Figure 2. Flow Cytometry analysis of THP-1 cells using anti-CXCR2 antibody (A00455-3).
Overlay histogram showing THP-1 cells stained with A00455-3 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-CXCR2 Antibody (A00455-3, 1 ug/1x10⁶ cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

4 Publications Citing This Product

1. PubMed ID: 10.1177/1744806916646381, Overexpression of GRK6 attenuates neuropathic pain via suppression of CXCR2 in rat dorsal root ganglion:
2. PubMed ID: 10.1016/j.brainresbull.2016.09.016, Chemokine receptor CXCR2 in dorsal root ganglion contributes to the maintenance of inflammatory pain
3. PubMed ID: 10.1016/j.expneurol.2014.05.014, Chemokine CXCL1 enhances inflammatory pain and increases NMDA receptor activity and COX-2 expression in spinal cord neurons via activation of CXCR2

Visit bosterbio.com/anti-cxcr2-picoband-trade-antibody-a00455-3-boster.html to see all 4 publications.

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