BOSTER BIOLOGICAL TECHNOLOGY
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Anti-CXCR2 Antibody

Catalog Number: A00455-1

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
Reactive Species	Human
Description	Boster Bio Anti-CXCR2 Antibody catalog # A00455-1. Tested in Flow Cytometry, IHC applications. This antibody reacts with Human.
Application	Flow Cytometry, IHC
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 at the N-terminus of human CXCR2, which shares 52.4% amino acid (aa) sequence identity with rat CXCR2.
Recommended Detection Systems	Boster recommends HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross-reactivity with other proteins

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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	Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human Flow Cytometry (Fixed), 1-3ug/1x10^6 cells, Human Note: For flow cytometry (FCM), suitable for fixed cells only. Not suitable for FACS or surface flow cytometry using live cells.

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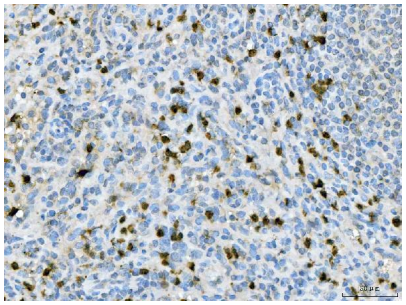
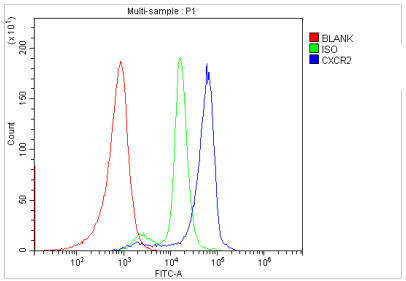
Anti-CXCR2 Antibody (A00455-1) Images



IHC analysis of CXCR2 using anti-CXCR2 antibody (A00455-1). CXCR2 was detected in a paraffin-embedded section of human spleen tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-CXCR2 Antibody (A00455-1) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



Flow Cytometry analysis of human PBMC cells using anti-CXCR2 antibody (A00455-1).Overlay histogram showing human PBMC cells stained with A00455-1 (Blue line). The cells fixed with 4% paraformaldehyde and were blocked with 10% normal goat serum. And then incubated with rabbit anti-CXCR2 Antibody (A00455-1,1ug/1x106 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10ug/1x106 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

3 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: -, Anqi Xia,Huan Huang,Wenjun You et al.The neuroprotection of hyperbaric oxygen therapy against traumatic brain injury via NF-kappaB/MAPKs-CXCL1 signaling pathway, 28 December 2020, PREPRINT (Version 1) available at Research Square [https://doi.org/10.21203/rs.

3. PubMed ID: 30404567, 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 Dong Cui 1, Yongfu Zhao 1, Jingchao Xu 1 Cancer Biol Ther. 2019;20(5):608-616. doi:

Visit bosterbio.com/anti-cxcr2-picoband-trade-antibody-a00455-1-boster.html to see all 3 publications.

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