

## Anti-CXCR4 Monoclonal Antibody

Catalog Number: M00031

### About CXCR4

Phosphoinositide-3-kinase (PI3K) that phosphorylates PtdIns (Phosphatidylinositol), PtdIns4P (Phosphatidylinositol 4-phosphate) and PtdIns (4,5) P2 (Phosphatidylinositol 4,5-bisphosphate) to generate phosphatidylinositol 3,4,5-trisphosphate (PIP3). PIP3 plays a key role by recruiting PH domain-containing proteins to the membrane, including AKT1 and PDK1, activating signaling cascades involved in cell growth, survival, proliferation, motility and morphology. Participates in cellular signaling in response to various growth factors.

### Overview

Product Name	Anti-CXCR4 Monoclonal Antibody
Reactive Species	Human, Mouse
Description	Boster Bio Anti-CXCR4 Monoclonal Antibody catalog # M00031. Tested in WB, IHC, ICC/IF applications. This antibody reacts with Human, Mouse.
Application	IF, IHC, ICC, WB
Clonality	Monoclonal CID-3
Formulation	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P61073

### Technical Details

Immunogen	A synthesized peptide derived from human CXCR4
Isotype	Rabbit IgG
Form	Liquid
Concentration	Actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.
Purification	Affinity-chromatography
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:

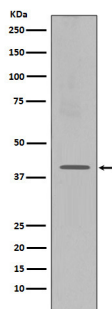
Boster Bio's internal QC testing used:

WB 1:100-1:200

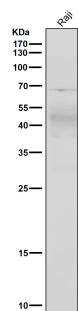
IHC 1:50-1:200

ICC/IF 1:50-1:200

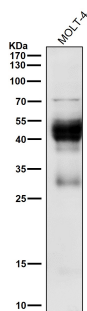
## Anti-CXCR4 Monoclonal Antibody (M00031) Images



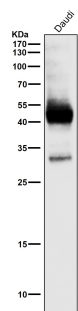
Western blot analysis of CXCR4 expression in Jurkat cell lysate.



All lanes use the Antibody at 1:500 dilution for 1 hour at room temperature.

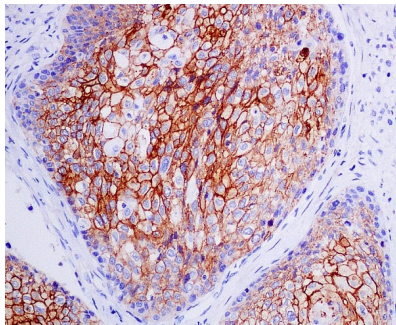
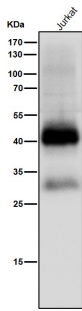


All lanes use the Antibody at 1:500 dilution for 1 hour at room temperature.

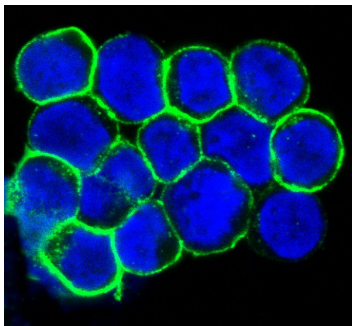


All lanes use the Antibody at 1:500 dilution for 1 hour at room temperature.

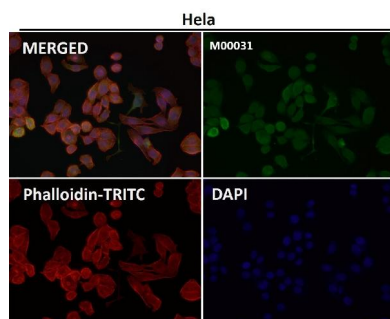
All lanes use the Antibody at 1:500 dilution for 1 hour at room temperature.



Immunohistochemical analysis of paraffin-embedded human cervical carcinoma, using CXCR4 Antibody.



Immunofluorescent analysis of Jurkat cells, using CXCR4 Antibody .



Immunofluorescent analysis using the Antibody at 1:50 dilution.

## 5 Publications Citing This Product

1. PubMed ID: 33413641, Gao W,Yang X,Du J,Wang H,Zhong H,Jiang J,Yang C.Glucocorticoid guides mobilization of bone marrow stem/progenitor cells via FPR and CXCR4 coupling.Stem Cell Res Ther.2021 Jan 7;12(1):16.doi:10.1186/s13287-020-02071-1.PMID:33413641;PMCID:PMC7791823.
2. PubMed ID: 25471741, Blockade of CXCL12/CXCR4 signaling inhibits intrahepatic cholangiocarcinoma progression and metastasis via inactivation of canonical Wnt pathway
3. PubMed ID: 18983683, Chemokine CXCL12 and its receptor CXCR4 expression are associated with perineural invasion of prostate cancer

Visit [bosterbio.com/anti-cxcr4-antibody-m00031-boster.html](https://bosterbio.com/anti-cxcr4-antibody-m00031-boster.html) to see all 5 publications.

## Submit a product review to Biocompare.com

Submit a review of this product to Biocompare.com to receive a \$20 Amazon.com giftcard! Your reviews help your fellow scientists make the right decisions. Thank you for your contribution.



Anti-CXCR4 Monoclonal Antibody