

Bulk anti-Human CXCR4 (12G5) Antibody

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Product Benefits:

ichorbio's bulk anti-Human CXCR4 Antibody (12G5) is manufactured in a cGMP compliant, ISO Quality Standard 9001:2015 facility.

Target:

CXCR4

Other Names:

Fusin, LESTR, CD184

Clone:

12G5

Size:

ichorbio's anti-Human CXCR4 antibody is available in the following bulk sizes: 5mg, 25mg, 50mg and 100mg. ichorbio regularly manufactures multi-gram amounts of our anti-CXCR4 clone 12G5 - please contact us for pricing.

Isotype:

Mouse IgG2a kappa

Host:

Mouse

Species Reactivity:

Human

Specificity:

12G5 activity is directed against human CXCR4 (CD184; Fusin).

Purification Method:

This monoclonal antibody was purified using multi-step affinity chromatography methods such as Protein A or G depending on the species and isotype.

Antigen Distribution:

CXCR4 is expressed in various organs including ovary, bone marrow, kidney, lung, small intestine, spleen, lymph nodes, brain, stomach, liver, thymus, heart, and pancreas as well as on the surface of endothelial mature and precursor cells and pericytes.

Background:

12G5 binds specifically to both human and nonhuman cells that express recombinant CXCR4. 12G5 inhibits CD4-independent infection by some HIV-2 isolates, and preincubating cells with 12G5 abolishes syncytium formation. HIV-2/vcp-infected cells display a marked and selective reduction in 12G5 binding. 12G5 also inhibits induction of cell-to-cell fusion of CXCR4⁺ RD/CD4 cells by HIV-1 and HIV-2 strains.

Immunogen:

12G5 was produced by immunizing Balb/c mice with CP-MAC-infected Sup-T1 cells. Hybridomas were generated and screened for the ability to inhibit CP-MAC-induced syncytium induction on Sup-T1 cells.

Concentration:

>2.0 mg/ml

Formulation:

This monoclonal antibody is aseptically packaged and formulated in 0.01 M phosphate buffered saline (PBS) pH 7.2 - 7.4, 150 mM NaCl with no carrier protein, potassium or preservatives added. BSA and azide free

Purity:

>95% by SDS-PAGE and HPLC

>98% by SDS-PAGE and HPLC

Endotoxin:

? 1.0 EU/mg as determined by the LAL method

? 0.75 EU/mg as determined by the LAL method

Aggregation:

Aggregation level ? 5%

Aggregation level ? 1%

Storage:

This antibody is stable for at least 4 weeks when stored at 2-8°C. For long term storage, aliquot in working volumes without diluting and store at – 20°C or -80°C. Avoid repeated freeze thaw cycles.

Applications:

Blocking, Flow Cytometry, Immunocytochemistry, Immunofluorescence Microscopy, Immunohistochemistry, Neutralization, Western Blotting

Application Notes:

Each investigator should determine their own optimal working dilution for specific applications.

Use:

Products are for research use only.

Isotype Control:

[Mouse IgG2a In Vivo Isotype Control – Low Endotoxin \(C1.18.4\) \[ICH2245\]](#)

Alternative Names:

- C-X-C chemokine receptor type 4 antibody
- CD184 antibody
- CD184 antigen antibody
- Chemokine (C X C motif) receptor 4 antibody
- Chemokine CXC Motif Receptor 4 antibody
- CXC-R4 antibody
- CXCR-4 antibody
- CXCR4 antibody
- CXCR4_HUMAN antibody
- D2S201E antibody
- FB22 antibody
- Fusin antibody
- HM89 antibody
- HSY3RR antibody
- LAP 3 antibody
- LAP3 antibody
- LCR1 antibody
- LESTR antibody
- Leukocyte derived seven transmembrane domain receptor antibody
- Leukocyte-derived seven transmembrane domain receptor antibody
- Lipopolysaccharide associated protein 3 antibody
- Neuropeptide Y receptor Y3 antibody
- NPY3R antibody
- NPYR antibody
- NPYRL antibody
- NPYY3 antibody
- NPYY3R antibody
- Probable G protein coupled receptor lcr1 homolog antibody
- SDF 1 receptor antibody
- SDF-1 receptor antibody

- SEVEN-TRANSMEMBRANE-SEGMENT RECEPTOR antibody
- Stromal cell derived factor 1 receptor antibody
- Stromal cell-derived factor 1 receptor antibody
- WHIM antibody
- WHIMS antibody