

Bulk Anti-Human CD195 (HEK/1/85a/7a) Antibody (CCR5)

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Product Benefits:

ichorbio's bulk anti-Human CD195 (CCR5) antibody (HEK/1/85a/7a) is manufactured in a cGMP compliant, ISO Quality Standard 9001:2015 facility. ichorbio's low endotoxin antibodies have half the endotoxin of comparable antibodies from [Bio X Cell](#) at less than 1.0 EU/mg. If ichorbio's low endotoxin antibodies are not low enough we also offer ultra low endotoxin antibodies which have even less endotoxin (0.5EU/mg) at an even higher purity (98% versus 95%). ichorbio: the best antibodies for *in vivo* research.

Target:

CD195

Other Names:

C-C chemokine receptor type 5, CC-CKR-5, CCR-5, CHEMR13, HIV-1 fusion coreceptor

Clone:

HEK/1/85a/7a

Size:

ichorbio's CD195 *in vivo* antibody is available in the following bulk sizes: 5mg, 25mg, 50mg and 100mg ichorbio regularly manufactures multi-gram amounts of our anti-Human CD195 (CCR5) antibody (HEK/1/85a/7a) - please contact us for pricing.

Isotype:

Rat IgG2b

Uniprot:

[P51681](#)

Host:

Rat

Species Reactivity:

Human

Specificity:

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Clone HEK/1/85a/7a recognizes an epitope on human CCR5.

Purification Method:

This anti-Human CD195 (CCR5) antibody (HEK/1/85a/7a) was purified using multi-step affinity chromatography methods such as Protein A or G depending on the species and isotype.

Antigen Distribution:

CCR5 is expressed on memory T cells, macrophages, and immature dendritic cells (DCs)

Background:

CCR5 antibody, HEK/1/85a/7a, recognizes C-C chemokine receptor type 5 (CCR5), also known as CD195, CC-CKR-5, CHEMR13, and HIV-1 fusion coreceptor. CCR5 is a 45 kDa seven-transmembrane G-protein-coupled receptor (GPCR). CCR5 is expressed on a subset of memory T cells, macrophages, and immature dendritic cells (DCs) and is upregulated by proinflammatory cytokines. CCR5 binds to inflammatory CC-chemokines, including CCL3 (macrophage inflammatory protein (MIP)-1?), CCL4 (MIP-1?), and RANTES, which increases intracellular calcium levels and results in cytoskeletal rearrangement and chemotactic cell migration. CCR5 is also the coreceptor for HIV-1 following binding of viral gp120 to CD44-7. The levels of CCR5 on cells influence the rate of entry of HIV-1, and patients with lower levels of CCR5 exhibit immunity against infection. CCR5 also contributes to other human diseases, including type I diabetes and cancer.

Immunogen:

CHO cells transfected with full-length human CD195 (CCR5).

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%

IMPACT Pathogen Test:

We use the IMPACT test generated by IDEXX Laboratories to guarantee our Ultra Low Endotoxin antibodies are pathogen free. Our mouse antibodies are tested for: Mycoplasma spp. Mycoplasma pulmonis Sendai virus Mouse hepatitis virus Pneumonia virus of mice Minute virus of mice Mouse parvovirus (MPV1-5) Theiler's murine encephalomyelitis virus Murine norovirus Reovirus 3 Mouse rotavirus Ectromelia virus Lymphocytic choriomeningitis virus Polyoma virus Lactate dehydrogenase-elevating virus Mouse adenovirus (MAD1, MAD2) Mouse cytomegalovirus K virus Mouse thymic virus Hantaan virus Corynebacterium bovis Corynebacterium spp. (HAC2)

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:

Flow Cytometry

Application Notes:

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

Use:

Products are for research use only.