Anti-Mouse CD183 (CXCR3-173) In Vivo Antibody - Low Endotoxin

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Product Benefits:

ichorbio's anti-Mouse CD183 In Vivo Antibody (CXCR3-173) - Low Endotoxin [ICH1201] 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:

CD183

Clone:

CXCR3-173

Size:

ichorbio's CXCR3-173 *in vivo* antibody is available in the following bulk sizes: 5mg, 25mg, 50mg and 100mg. ichorbio regularly manufactures multi-gram amounts of our anti-mouse CD183 CXCR3-173 clone - please contact us for pricing.

Isotype:

Armenian Hamster IgG

Other Names: CXCR3G, protein-coupled receptor 9 (GPR9), CKR-L2, IP10 receptor (IP10-R), Mig receptor (Mig-R) **Host:**

Armenian Hamster

Species Reactivity:

Mouse

Specificity:

CXCR3-173 activity is directed against murine CD183 (CXCR3).

Antigen Distribution:

CXCL3 is expressed on primary memory phenotype CD4+ and CD8+ T cells, naturally occurring CD4+CD25+ Foxp3+ regulatory T cells, natural killer (NK) T cells, and approximately 25% of NK cells. CXCR3-173 recognizes an epitope of CXCR3 expressed on the surface of activated mouse splenocytes.

Background: Hamsters were tested by ELISA for seropositivity against CXCR3 peptide and hybridomas were generated, screened by FACS, purified, and tested for: staining, CXCR3 blockade in vitro, and endotoxin levels. CXCR3-173 detects the native form of CXCR3, and therefore does not work in Western blotting. CXCR3-173 has potential use in immunotherapeutic approaches to inhibit transplant rejection and immune related diseases. In vitro, CXCR3-173 blocks chemotaxis in response to CXCL10 or CXCL11 but not CXCL9. In vivo, CXCR3-173 prolongs both cardiac and islet allograft survival in a manner further enhanced by rapamycin. **Immunogen:**

CXCR3-173 was generated by immunizing Armenian hamsters with a peptide sequence unique to mouse CXCR3 which encompasses amino acids 1-37.

Concentration:

1.0 - 5.0 mg/ml

Formulation:

0.01 M phosphate buffered saline (PBS) pH 7.2, 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:

Anti-Mouse CD183 In Vivo Antibody (CXCR3-173) is stable for at least one week when stored sterile at 2-8°C. For long term storage aseptically aliquot in working volumes without diluting and store at –20°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles.

Applications:

Flow Cytometry, Neutralization

Application Notes: Each investigator should determine their own optimal working dilution for specific applications. **Use:**

Products are for research use only.

Isotype Control:

Armenian Hamster IgG Isotype Control for In Vivo - Low Endotoxin [PIP] (ICH2251)