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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-CXCR3 [CXCR3-173] Standard Size Ab03915-2.3

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

This is a reformatted mouse IgG2a Fc Silent™ antibody, based on the original mouse IgG format, created for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Mouse IgG2a, [Fc Silent™](#), Lambda

Clone Number: CXCR3-173

Alternative Name(s) of Target: CD183; Mouse CXCR3; CXC-R3; CXCR-3; C-X-C chemokine receptor type 3; Interferon-inducible protein 10 receptor; IP-10 receptor

UniProt Accession Number of Target Protein: O88410

Published Application(s): Blocking, Chemotaxis Assay, FACS, in vivo, inhibition, LBA, therapeutic, ELISA, FC

Published Species Reactivity: Mouse

Immunogen: The original antibody was generated by immunizing Armenian hamsters with a multiple antigen peptide (MAPS8) encompassing amino acids 1-37 of mouse CXCR3 in complete Freund's adjuvant, and boosted with peptide in incomplete Freund's adjuvant.

Specificity: This antibody is specific for mouse CXCR3 and recognizes CXCR3 on cells from wild-type but not CXCR3^{-/-} mice.

Application Notes: This antibody's original format (hamster (Armenian) IgG) was used in ligand binding assay (LBA), FACS-based chemokine binding inhibition assay, and chemotaxis assays, as well as to measure its pharmacokinetics and immunogenicity in a mouse model. It blocked chemotaxis in response to CXCL10 or CXCL11 *in vitro*. When injected into mice, this antibody significantly prolonged cardiac and islet allograft survival. When combined with a subtherapeutic regimen of rapamycin, this antibody induced long-term (>100 d) survival of cardiac and islet allografts (Uppaluri et al., 2008; PMID: 18622291). This antibody was used to block CXCR3 to investigate its role in lymphocyte migration *in vivo*. The antibody was given intravenously just before an injection of labeled T cells to assess the effect of blocking CXCR3 on T cell migration (Dai et al., 2016; PMID: 27412416). This antibody was used as an anti-CXCR3 blocking antibody in the non-obese diabetic (NOD) mouse model of Sjögren's syndrome (SS) to elucidate whether the interaction between CXCR3 and its ligands is required for the development of SS. Treatment with anti-CXCR3 significantly improved salivary secretion and reduced the percentage of CXCR3⁺CD8 T and CXCR3⁺CD44⁺CD8 T cells in the submandibular glands (SMGs) and submandibular lymph nodes. Furthermore, SMG

expression of the inflammatory factor TNF- α was diminished by anti-CXCR3 treatment, while the expression of tight junction protein claudin-1 and water channel protein aquaporin 5, crucial for normal salivary secretion, was enhanced (Zhou & Yu, 2018; PMID: 29348563). This antibody was used for an *in vivo* CXCR3 blockade experiment to assess its effect on tumor response to radiation therapy and immunotherapy. Additionally, it was used in flow cytometric analysis of tumor-infiltrating lymphocytes and single-cell suspensions from the spleen, blood, and lymph nodes to detect CXCR3 expression (Luo et al., 2019; PMID: 31506388).

Antibody First Published in: Uppaluri et al. Prolongation of cardiac and islet allograft survival by a blocking hamster anti-mouse CXCR3 monoclonal antibody Transplantation. 2008 Jul 15;86(1):137-47. doi: 10.1097/TP.0b013e31817b8e4b [PMID:18622291](https://pubmed.ncbi.nlm.nih.gov/18622291/)

Note on publication: The original publication reports the generation, characterization, and use of CXCR3-173.

Product Form

Size: 100 μ g Purified antibody.

Purification: Protein A affinity purified

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note - This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.