

Product Data Sheet

Product Name: Anti-Mouse CXCR6 Antibody (Cx6Mab-1)

Cat. No.: GC79221

Chemical Properties

Cas. No.

Formula

M.Wt

Solubility

Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

Anti-Mouse CXCR6 Antibody (Cx6Mab-1) is a monoclonal antibody targeting mouse CXC chemokine receptor 6 (mCXCR6), with a K D of 1.7 nM against CHO/mCXCR6-overexpressing cells. Anti-

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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Mouse CXCR6 Antibody (Cx6Mab-1) binds to the N-terminal domain epitope of mCXCR6 containing Ser8, Ala9, Leu10, Tyr11, Gly13 and His14, and interacts with both overexpressed and endogenous forms of the receptor. Anti-Mouse CXCR6 Antibody (Cx6Mab-1) can be used in studies related to mouse lymphoma [1] [2].

In Vitro, Anti-Mouse CXCR6 Antibody (Cx6Mab-1) (1 µg/mL; 30 min) binds to an epitope on the N-terminal domain of mCXCR6 that includes Ser8, Ala9, Leu10, Tyr11, Gly13, and His14, which is confirmed by its loss of binding ability to specific double-residue alanine/glycine-mutated mCXCR6 peptides in ELISA assays^[1]. Anti-Mouse CXCR6 Antibody (Cx6Mab-1) (0.01-10 µg/mL; 30 min) binds specifically to mCXCR6 on CHO/mCXCR6 cells with high affinity ($KD = 1.7 \times 10^{-9}$ M), shows moderate affinity for P388 cells and J774-1 cells (with KD values of 0.34 µM and 0.38 µM, respectively), and does not bind to parental CHO-K1 cells^[2]. Anti-Mouse CXCR6 Antibody (Cx6Mab-1) (10 µg/mL) specifically detects exogenous mCXCR6 in CHO/mCXCR6 cells and endogenous mCXCR6 in P388 and J774-1 cells via Western blot analysis, identifying a major band of approximately 40 kDa and multiple higher-molecular-weight bands^[2].

References:

- [1]. Isoda Y, et al. Epitope Mapping of an Anti-Mouse CXCR6 Monoclonal Antibody (CxMab-1) Using the 2 × Alanine Scanning Method. *Monoclonal antibodies in immunodiagnosis and immunotherapy*. 2022 Oct;41(5):275-278.
- [2]. Kitamura K, et al. CxMab-1: A Novel Anti-Mouse CXCR6 Monoclonal Antibody Established by N-Terminal Peptide Immunization. *Monoclonal antibodies in immunodiagnosis and immunotherapy*. 2022 Jun;41(3):133-141.

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