Technical Data Sheet

InVivoMAb anti-mouse CXCR6 (CD186)

Attention: Use of this product constitutes an agreement to Bio X Cell's Terms and Conditions which are included with this product in print and can also be found at https://bioxcell.com/terms-and-conditions.

Lot Specific Information

Lot Number: **Lot Specific***
Volume: **Lot Specific***
Concentration: **Lot Specific* (generally 4 to 11 mg/ml) ***
Total Protein: **Lot Specific***

*This information will be noted on the certificate of analysis that ships with this product.

Product Information

Catalog Number:	**BE0463**
Clone:	**Cx6Mab-1**
Isotype:	Rat IgG1, κ
Recommended Isotype Control(s):	InVivoMAb rat IgG1 isotype control, anti-horseradish peroxidase
Recommended Dilution Buffer:	InVivoPure pH 7.0 Dilution Buffer
Immunogen:	Synthetic peptide corresponding to the N-terminal extracellular region of mouse CXCR6 (AA 1-19)
Reported Applications:	Flow cytometry Western blotting ELISA For details on *in vivo* applications, please contact technicalservice@bioxcell.com
Formulation:	PBS, pH 7.0 Contains no stabilizers or preservatives
Endotoxin:	≤1EU/mg (≤0.001EU/μg) Determined by LAL gel clotting assay
Purity:	≥95% Determined by SDS-PAGE
Sterility:	0.2 μm filtered
Production:	Purified from cell culture supernatant in an animal-free facility
Purification:	Protein G
RRID:	
Molecular Weight:	150 kDa

Description

The Cx6Mab-1 monoclonal antibody reacts with the N-terminal extracellular ligand-binding domain of mouse CXC chemokine receptor 6 (mCXCR6) also known as CD186, BONZO, or STRL33. CXCR6 is expressed on naive CD8+ T cells and a subset of memory CD4+ T cells, natural killer T cells (NKTs), dendritic cells (DCs), pulmonary alveolar macrophages, and innate lymphoid cells (ILCs). The ligand for CXCR6 is C-X-C chemokine CXCL16 that is predominantly expressed in DCs, monocytes, and various other tissue cells, primarily epithelial cells. The CXCR6-CL16 interaction guides immune cell homing (T lymphocyte migration to peripheral tissues) and their activation, expansion, and cytotoxic activity. Retroviruses such as simian immunodeficiency viruses (SIVs), some strains of HIV-2, and macrophage-tropic HIV-1 use CXCR6 as a coreceptor in conjunction with CD4 to enter target cells. In solid tumors, CXCR6 mediates CD8+ T-cell homing to tumor stromal perivascular niches and promotes interactions with CXCL16+ DCs and IL-15 expression for facilitating the growth of T-cells inside the tumor microenvironment. CXCR6 expression is also linked to the activation of Akt/mTOR and ERK/MAPK pathways and other downstream targets responsible for cancer growth and metastasis. CXCR6's prognostic significance varies among malignancies, but it is regarded as a reliable biomarker to predict the response to anti-PD-1 immunotherapy in various cancers.

Storage

Store at the stock concentration at 4°C . **Do not freeze.**
It is not uncommon for a floccule or precipitate to appear during storage. The floccule is typically buffer salts precipitating out of solution or a small bit of protein aggregation. For information on how to remove floccules or precipitates see our FAQ's at https://bioxcell.com/faqs.

Protocol Information

Since applications vary, each investigator should use the application references as a guide to help estimate the appropriate dose or concentration. The dose or concentration can be further optimized experimentally in a dose response or titration experiment.

Application References

For a complete list of references, visit https://bioxcell.com/be0463?bxcs=9k1b3a#tab_references or scan the QR code below.

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