# Technical Data Sheet

## InVivoMAb anti-mouse CXCR2 (CD182)

**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

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|---|---|
| **Catalog Number:** | **BE0456** |
| **Clone:** | **Cx2Mab-1** |
| **Isotype:** | Rat IgG2b, κ |
| **Recommended Isotype Control(s):** | InVivoMAb rat IgG2b isotype control, anti-keyhole limpet hemocyanin |
| **Recommended Dilution Buffer:** | InVivoPure pH 7.0 Dilution Buffer |
| **Immunogen:** | Synthetic peptide corresponding to mouse CXCR2's N-terminal sequence - MGEFKVDKFNIEDFFSGDL |
| **Reported Applications:** | Flow cytometry<br>For details on *in vivo* applications, please contact technicalservice@bioxcell.com |
| **Formulation:** | PBS, pH 7.0<br>Contains no stabilizers or preservatives |
| **Endotoxin:** | ≤1EU/mg (≤0.001EU/μg)<br>Determined by LAL gel clotting assay |
| **Purity:** | ≥95%<br>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 Cx2Mab-1 antibody reacts with mouse CXC chemokine receptor 2 (CXCR2), also known as CD182, GRO/MGSA receptor, and IL-8RB. CXCR2 is a G protein-coupled receptor (GPCR) that coordinates immune cell trafficking during immune responses. CXCR2 ligands include its primary ligands CXCL8 (IL-8) and CXCL1 (GRO-α) as well as CXCR2, CXCL2, CXCL3, CXCL5, CXCL6, and CXCL7. Leukocytes (particularly neutrophils and monocytes) constitutively express CXCR2, whereas parenchymal cells such as fibroblasts, hepatocytes, and neurons also express this receptor to varying degrees of abundance. CXCR2 and its ligands facilitate various tissue-dependent signals for regulating cellular survival, proliferation, differentiation, adhesion, and migration. In cancer tissues, CXCR2 signaling is critical to the processes of tumor angiogenesis, growth, and chemoresistance, and a high expression of CXCR2 on myeloid cells drives their migration to the tumor cells. Blockade of CXCR2-mediated recruitment of myeloid-derived suppressor cells (MDSCs) into the tumor microenvironment and the pre-metastatic niche is emerging as an attractive approach to boost cancer immunotherapy. The Cx2Mab-1 antibody targets the N-terminal extracellular domain of CXCR2, which is important for ligand binding and receptor activation. This antibody could be a useful tool for CXCR2 blockade in both in vitro and in vivo preclinical experimental studies.

## 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/be0456?bxcs=9k1b3a#tab_references or scan the QR code below.

**Bio X Cell, LLC**
https://bioxcell.com
+1-866-787-3444
customerservice@bioxcell.com

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