Technical Data Sheet

InVivoMAb anti-mouse CCR8 (CDw198)

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:	**BE0464**
Clone:	**C8Mab-2**
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:	mCCR8 expressing CHO cells
Reported Applications:	Flow cytometry Western blotting Immunofluorescence 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 C8Mab-2 monoclonal antibody reacts with an epitope within the N-terminal region of mouse C-C chemokine receptor type 8 (CCR8), also known as CKR-8, CDw198, CMKBRL2, CMKBR8, and GPRCY6. CCR8 is a seven-pass transmembrane chemokine receptor and a member of the G protein-coupled receptor (GPCR) family. CCR8 ligands include CCL1, CCL16, and CCL8 (mCCL8) or CCL18 (hCCL18, a functional analog of mouse CCL8). Human and mouse CCR8 as well as its primary ligand CCL1 are structurally related, and this ligand is critical for skin homing of T cells and the survival of the regulatory T cells (Tregs) as well as their chemotaxis into tumors. Murine CCR8 is primarily expressed by the Tregs, and it is critical for their function. A subset of Th2 cells, skin-resident memory T cells, monocytic dendritic cells, and NK cells also express CCR8, but this receptor is not expressed by Th1 cells. Recent in vivo studies have documented the involvement of CCR8 in type 2 inflammatory diseases, including atopic dermatitis (AD) and allergic enteritis (AE). In the tumor microenvironment, CCR8+ Treg numbers directly correlate with an advanced state of cancer, and therapeutic depletion of CCR8+ tumor-infiltrating Tregs (ti-Tregs) is shown to exert antitumor immunity and synergism with anti-PD-1 therapy.

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

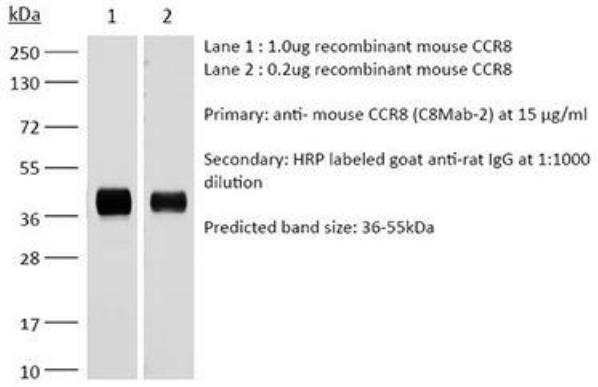
Since applications vary, each investigator should use the application references as a guide to help estimate the appropriate dose or concentration. The dose or concentration can be further optimized experimentally in a dose response or titration experiment.

Application References

For a complete list of references, visit https://bioxcell.com/be0464?bxcs=9k1b3a#tab_references or scan the QR code below.

Binding Validation

Validation data shown below confirms that this clone binds to its target antigen. For lot specific binding validation data, e-mail technicalservice@bioxcell.com.



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