

Technical Data Sheet

RecombiMAb anti-mouse CCR1



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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 Website Link: <https://bioxcell.com/recombimab-anti-mouse-ccr1-cp112>

Product Information

Catalog Number: CP112
Clone: C1Mab-6-CP112
Isotype: Mouse IgG2a, κ
Recommended Isotype Control(s): RecombiMAb mouse IgG2a isotype control, unknown specificity
Recommended Dilution Buffer: InVivoPure pH 7.0 Dilution Buffer
Immunogen: CHO cells overexpressing mouse CCR1 (CHO/mCCR1)
Reported Applications: Flow Cytometry*
Western Blot*
*Reported for the original C1Mab-6 antibody
Formulation: PBS, pH 7.0
Contains no stabilizers or preservatives
Endotoxin: ≤ 0.5 EU/mg (≤ 0.0005 EU/ μ g)
Determined by LAL assay
Purity: $\geq 95\%$
Determined by SDS-PAGE
Sterility: 0.2 μ m filtration
Production: Purified from mammalian cell supernatant in an animal-free facility
Purification: Protein G
Aggregation: $< 5\%$
Determined by SEC
RRID:
Molecular Weight: 150 kDa

Murine Pathogen Test Results

Mouse Norovirus: Negative, Mouse Parvovirus: Negative, Mouse Minute Virus: Negative, Mouse Hepatitis Virus: Negative, Reovirus Screen: Negative, Lymphocytic Choriomeningitis virus: Negative, Lactate Dehydrogenase-Elevating Virus: Negative, Mouse Rotavirus: Negative, Theiler's Murine Encephalomyelitis: Negative, Ectromelia/Mousepox Virus: Negative, Hantavirus: Negative, Polyoma Virus: Negative, Mouse Adenovirus: Negative, Sendai Virus: Negative, Mycoplasma Pulmonis: Negative, Pneumonia Virus of Mice: Negative, Mouse Cytomegalovirus: Negative, K Virus: Negative

Description

The C1Mab-6-CP112 monoclonal antibody is a chimeric version of the original C1Mab-6 antibody. The variable domain sequences are identical but the constant region sequences have been switched from Rat IgG2b, κ to Mouse IgG2a, κ . The C1Mab-6-CP112 antibody has an effector function competent Fc domain allowing for activation of Fc γ receptors (Fc γ Rs) to trigger antibody-dependent cellular cytotoxicity (ADCC), antibody-dependent cellular phagocytosis (ADCP), complement-dependent cytotoxicity (CDC) and opsonization to promote target cell depletion. The mouse IgG2a isotype

demonstrates strong effector functions due to potent interaction with mFcγRIV, which is functionally similar to the FcγRIIIa receptor involved in human ADCC. Species-matched chimeric antibodies result in less immunogenicity and formation of anti-drug antibodies (ADAs) than xenogenic antibodies in animal models. The highly controlled sequence and lack of genetic drift in recombinant antibodies provide more reliable and reproducible results over hybridoma derived antibodies. C1Mab-6-CP112 specifically targets mouse CCR1 (C-C chemokine receptor type 1), a G-protein-coupled chemokine receptor that mediates cell migration and inflammatory responses by binding specific CC chemokines such as CCL3 (MIP-1α) and CCL5 (RANTES). Mouse CCR1 is expressed on monocytes, macrophages, dendritic cells, neutrophils, mast cells, and subsets of T cells and B cells, depending on activation and tissue context. Mouse CCR1 is implicated in a broad range of inflammatory, fibrotic, and some neoplastic disease models, mainly through its role in leukocyte recruitment and macrophage/monocyte activation. Mouse CCR1 is ~80% homologous to human CCR1, making mouse models useful for studying human-like inflammatory and immune-pathology pathways.

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/recombimab-anti-mouse-ccr1-cp112?utm_source=cr9k1b#tab_references or scan the QR code below.



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