

Technical Data Sheet

RecombiMAb anti-mouse PD-1 (CD279) F(ab) fragment



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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-pd-1-cd279-f-ab-fragment-cp157fab>

Product Information

Catalog Number: CP157FAB
Clone: RMP1-14-CP157 f(ab) Fragments
Isotype: Mouse IgG2a, κ
Recommended Dilution Buffer: InVivoPure pH 7.0 Dilution Buffer
Immunogen: Syrian Hamster BKH cells transfected with mouse PD-1 cDNA
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: Papain Digest
Purification: Protein G
Aggregation: $< 5\%$
Determined by SEC

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

This product is a F(ab) fragment derived from the anti-mouse PD-1 antibody clone RMP1-14-CP157. PD-1, also known as CD279, is an inhibitory receptor expressed on activated T cells, B cells, and myeloid cells. Upon binding its ligands, PD-L1 and PD-L2, PD-1 negatively regulates immune-cell activation by reducing T cell receptor signaling, proliferation, cytokine production, and effector function. The RMP1-14 antibody has been reported to block PD-1/PD-L signaling. Unlike a full-length antibody, this F(ab) fragment contains only the antigen-binding region and lacks the Fc domain. As a result, the fragment retains specific binding to mouse PD-1 while eliminating Fc-mediated effector functions such as complement activation and Fc γ receptor engagement. This format is useful in experiments where PD-1 targeting or blockade is desired without Fc-mediated cross-linking, immune-cell depletion, or other Fc-dependent effects that could complicate interpretation of PD-1 biology. F(ab) fragments targeting PD-1 may also be useful in emerging targeted-delivery strategies. For example, the fragment can be used to coat nanoparticles or other delivery systems intended to target PD-1-expressing immune cells and deliver genetic, pharmacologic, or imaging payloads. By avoiding Fc-mediated immune interactions, F(ab) fragments

can enable receptor-specific targeting while reducing the potential for unintended Fc-dependent modulation or elimination of PD-1-expressing cells. This anti-mouse PD-1 F(ab) fragment therefore provides a useful reagent for studies focused on PD-1 binding and blockade without Fc effects, mechanistic investigation of the PD-1 pathway, and targeted-delivery approaches.

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-pd-1-cd279-f-ab-fragment-cp157fab?utm_source=cr9k1b#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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