Technical Data Sheet

InVivoMAb anti-mouse LAG-3 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/invivomab-anti-mouse-lag-3-f-ab-fragment-be0174fab

Product Information

Catalog Number:	**BE0174FAB**
Clone:	**C9B7W f(ab) Fragments**
Isotype:	Rat IgG1, κ
Recommended Dilution Buffer:	InVivoPure pH 7.0 Dilution Buffer
Immunogen:	Mouse CD223-Ig fusion protein
Formulation:	PBS, pH 7.0 Contains no stabilizers or preservatives
Endotoxin:	≤1EU/mg (≤0.001EU/μg) Determined by LAL assay
Purity:	≥95% Determined by SDS-PAGE and SEC
Sterility:	0.2 μm filtered
Production:	Papain Digest
Purification:	Protein G
RRID:	

Description

This product is an F(ab) fragment derived from the anti-mouse LAG-3 antibody clone C9B7W. The C9B7W monoclonal antibody reacts with mouse LAG-3, also known as CD223, a 70 kDa type I transmembrane glycoprotein encoded by the Lag3 gene and belonging to the immunoglobulin superfamily. LAG-3 is expressed by activated T lymphocytes, NK cells, and regulatory T cells. Its primary ligand is MHC class II, which LAG-3 binds with higher affinity than CD4. LAG-3 is generally associated with immune checkpoint activity and has been reported to downregulate TCR signaling, inhibit CD4-dependent T cell function, and contribute to the suppressive function of regulatory T cells. In some contexts, LAG-3 has also been reported to promote immune responses through activation of antigen-presenting cells. 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 LAG-3 while eliminating Fc-mediated effector functions such as complement activation and Fcγ receptor engagement. Because the Fc region is absent, this format is useful in experiments where LAG-3 binding or receptor engagement is desired without Fc-dependent immune effects, including antibody-mediated cytotoxicity, Fcγ receptor–mediated cross-linking by accessory cells, or complement activation. The full-length C9B7W antibody has been reported to block the function of murine LAG-3 in vivo and in vitro, although studies suggest that this antibody does not block LAG-3 binding to MHC class II. The F(ab) fragment format may therefore provide a useful tool for studying LAG-3 biology, receptor engagement, and immune checkpoint signaling while minimizing secondary Fc-mediated mechanisms that can complicate interpretation of results. This anti-mouse LAG-3 F(ab) fragment is well suited for studies focused on LAG-3 targeting, checkpoint receptor engagement without Fc-mediated effects, and the functional role of LAG-3 in T cell, NK cell, and regulatory T cell biology.

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/invivomab-anti-mouse-lag-3-f-ab-fragment-be0174fab?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