Technical Data Sheet

InVivoMAb anti-mouse LAG-3



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

Reported Applications:

Formulation:

Catalog Number:BE0174Clone:C9B7WIsotype:Rat IgG1, κ

Recommended Isotype Control(s): InVivoMAb rat IgG1 isotype control, anti-horseradish peroxidase

Recommended Dilution Buffer: InVivoPure pH 7.0 Dilution Buffer **Immunogen:** Mouse CD223-lg fusion protein

in vivo LAG-3 neutralization

in vitro LAG-3 neutralization
Flow cytometry

Western blot PBS, pH 7.0

Contains no stabilizers or preservatives

Endotoxin: <2ΕU/mg (<0.002ΕU/μg)

Determined by LAL gel clotting assay

Purity: >95%

Determined by SDS-PAGE

Sterility: 0.2 µM filtered

Production: Purified from tissue culture supernatant in an animal free facility

Purification:Protein GRRID:AB_10949602Molecular Weight:150 kDa

Description

The C9B7W monoclonal antibody reacts with mouse LAG-3 also known as CD223. LAG-3 is a 70 kDa type I transmembrane glycoprotein encoded by the *Lag3* gene that belongs to the immunoglobulin superfamily. LAG-3 is expressed by activated T lymphocytes, NK cells, and T regulatory cells. LAG-3's main ligand is MHC class II which it binds to with a higher affinity than even CD4 does. Upon binding LAG-3 is thought to play similar roles as CTLA-4 and PD-1 including downregulation of TCR signaling and inhibition of CD4-dependent T cell function. LAG-3 has also been demonstrated to contribute to the suppressor function of T regulatory cells. In contrast to inhibition, LAG-3 has been shown to promotes immune responses by activating antigen-presenting cells. The C9B7W antibody has been reported to block the function of murine LAG-3 *in vivo* and *in vitro* but studies suggest that the antibody does not block binding of LAG-3 to MHC class II.

Shelf-life and Storage

Store at the stock concentration at 4°C. Do not freeze.

All Bio X Cell antibodies have a guaranteed shelf-life of one year from the date of customer receipt when stored as recommended. 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 bxcell.com/fags.

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://bxcell.com/product/m-lag-3/#references or scan the QR code below.

Bio X Cell, Inc.

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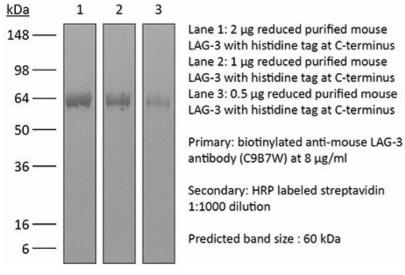
customerservice@bxcell.com

Conditions: For Research Use Only. Not for use in diagnostic or therapeutic procedures. Not for resale.



Binding Validation

Western blot data shown below confirms that this clone binds to its target antigen. For lot specific binding validation data, email technicalservice@bxcell.com.



Bio X Cell, Inc.