Technical Data Sheet

*InVivo*MAb anti-mouse CLEC9A (CD370)

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:	**BE0305**
Clone:	**7H11**
Isotype:	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:	RBL-2H3 cells expressing mouse CLEC9A fused to an HA epitope
Reported Applications:	*in vivo* Ag targeting to CLEC9A$^+$ DCs Western blot ELISA Immunoprecipitation Immunofluorescence Flow cytometry
Formulation:	PBS, pH 7.0 Contains no stabilizers or preservatives
Endotoxin:	<2EU/mg (<0.002EU/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 G
RRID:	AB_2721034
Molecular Weight:	150 kDa

Description

The 7H11 monoclonal antibody reacts with mouse CLEC9A (C-type lectin domain family member 9A). CLEC9A, also known as DNGR1 (dendritic cell natural killer lectin group receptor 1) and CD370, is a type II transmembrane glycoprotein with a single extracellular C-type lectin domain. DNGR-1 is restricted in its expression, being found only on CD8α$^+$, CD103$^+$, CD11b$^-$ subsets of DCs and plasmacytoid DCs. CLEC9A reportedly functions as an endocytic receptor for necrotic cells. It can mediate the cross-presentation of dead-cell associated antigens by dendritic cells in a Syk-dependent manner. It has been shown that targeting antigen to DNGR-1 on DC's via coupling antigen to the 7H11 antibody can result in activation of antigen specific CD8$^+$ T cell responses *in vivo*.

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/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://bxcell.com/product/invivomab-anti-mouse-clec9a-cd370/#references or scan the QR code below.

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