# Technical Data Sheet

## InVivoMAb anti-mouse CLEC9A (CD370)

**Attention: Use of this product constitutes an agreement to Bio X Cell's Terms and Conditions which are included with this product in print and can also be found at https://bioxcell.com/terms-and-conditions.**

## 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

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|---|---|
| **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* CLEC9A blockade<br>*in vivo* Ag targeting to CLEC9A+ DCs<br>Western blot<br>ELISA<br>Immunoprecipitation<br>Immunofluorescence<br>Flow cytometry |
| **Formulation:** | PBS, pH 7.0<br>Contains no stabilizers or preservatives |
| **Endotoxin:** | ≤1EU/mg (≤0.001EU/μg)<br>Determined by LAL gel clotting assay |
| **Purity:** | ≥95%<br>Determined by SDS-PAGE |
| **Sterility:** | 0.2 μm filtration |
| **Production:** | Purified from cell 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.

## 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/be0305?bxcs=9k1b3a#tab_references or scan the QR code below.

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