Technical Data Sheet

*InVivo*MAb anti-mouse Thy1.2 (CD90.2)

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:	**BE0066**
Clone:	**30H12**
Isotype:	Rat IgG2b, κ
Recommended Isotype Control(s):	InVivoMAb rat IgG2b isotype control, anti-keyhole limpet hemocyanin
Recommended Dilution Buffer:	InVivoPure pH 7.0 Dilution Buffer
Immunogen:	Mouse thymus or spleen
Reported Applications:	*in vivo* ILC depletion *in vivo* T cell depletion Western blot
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_1107682
Molecular Weight:	150 kDa

Description

The 30H12 monoclonal antibody reacts with mouse Thy1.2 also known as CD90.2. Thy1.2 is expressed by thymocytes and mature T lymphocytes as well as hematopoietic stem cells, neurons, epithelial cells, and fibroblasts. Thy1.2 is expressed only by certain mouse strains including C57BL/6, BALB/c, CBA, C3H, C58/, SJL, DBA, and NZB/. Thy1.2 is a 25-35 kDa GPI-anchored membrane glycoprotein and a member of the immunoglobulin superfamily. The function of Thy1.2 has not been fully elucidated but is thought to play roles in cognition, axon growth, T lymphocyte function, and apoptosis. The 30H12 monoclonal antibody has been reported to induce Ca2+ flux in thymocytes. This antibody is particularly useful for depletion of T lymphocytes.

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

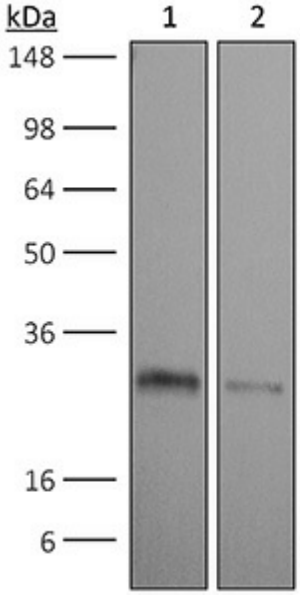
For a complete list of references, visit https://bxcell.com/product/m-thy-1-2/#references or scan the QR code below.

Bio X Cell, Inc.

bxcell.com
1.866.787.3444
customerservice@bxcell.com

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.



Lane 1 : 1.6 µg reduced purified mouse Thy1.2 with histidine tag at C-terminus
Lane 2 : 0.8 µg reduced purified mouse Thy1.2 with histidine tag at C-terminus

Primary: anti-mouse Thy1.2 (CD90.2) antibody (30H12) at 15 µg/ml

Secondary: HRP labeled goat anti-rat at 1:1000 dilution

Predicted band size : 20-27 kDa