Technical Data Sheet

InVivoMAb anti-mouse CTLA-4 (CD152)



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:

Catalog Number: BE0131
Clone: 9H10

Isotype: Syrian Hamster IgG

Recommended Isotype Control(s): InVivoMAb polyclonal Syrian hamster IgG

Recommended Dilution Buffer: InVivoPure pH 7.0 Dilution Buffer

Immunogen: Mouse CTLA-4-human IgG1 fusion protein

in vivo CTLA-4 neutralization in vitro CTLA-4 neutralization

Western blot
PBS, pH 7.0

Contains no stabilizers or preservatives

Endotoxin: <2ΕU/mg (<0.002ΕU/μg)

Determined by LAL gel clotting assay

Purity:

Determined by SDS-PAGE

Sterility: 0.2 µM filtered

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

Purification:Protein GRRID:AB_10950184Molecular Weight:150 kDa

Description

The 9H10 monoclonal antibody reacts with mouse CTLA-4 (cytotoxic T lymphocyte antigen-4) also known as CD152. CTLA-4 is a 33 kDa cell surface receptor encoded by the *Ctla4* gene that belongs to the CD28 family of the Ig superfamily. CTLA-4 is expressed on activated T and B lymphocytes. CTLA-4 is structurally similar to the T-cell co-stimulatory protein, CD28, and both molecules bind to the B7 family members B7-1 (CD80) and B7-2 (CD86). Upon ligand binding, CTLA-4 negatively regulates cell-mediated immune responses. CTLA-4 plays roles in induction and/or maintenance of immunological tolerance, thymocyte development, and regulation of protective immunity. The critical role of CTLA-4 in immune down-regulation has been demonstrated in CTLA-4 deficient mice, which succumb at 3-5 weeks of age due to the development of a lymphoproliferative disease. CTLA-4 is among a group of inhibitory receptors being explored as cancer treatment targets through immune checkpoint blockade. The 9H10 antibody has been shown to promote T cell co-stimulation by blocking CTLA-4 binding to the B7 co-receptors, allowing for CD28 binding.

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-cd152-m-ctla-4/#references or scan the QR code below.

Bio X Cell, Inc.

bxcell.com

1.866.787.3444

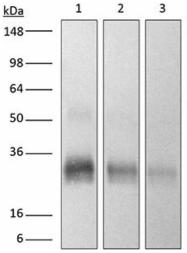
customerservice@bxcell.com

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.



Lane 1: 0.2 μg reduced purified mouse CTLA-4 with histidine tag at C-terminus Lane 2: 0.1 μg reduced purified mouse CTLA-4 with histidine tag at C-terminus Lane 3: 0.05 μg reduced purified mouse CTLA-4 with histidine tag at C-terminus

Primary: biotinylated anti-mouse CTLA-4 (CD152) antibody (9H10) at 8 µg/ml

Secondary: HRP labeled streptavidin 1:1000 dilution

Predicted band size: 25-30 kDa

Bio X Cell, Inc.