Technical Data Sheet

InVivoMAb anti-mouse CD40



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:BE0016-2Clone:FGK4.5/ FGK45Isotype:Rat IgG2a

Recommended Isotype Control(s): InVivoMAb rat IgG2a isotype control, anti-trinitrophenol

Recommended Dilution Buffer: InVivoPure pH 7.0 Dilution Buffer

Immunogen: Recombinant mouse CD40 fusion protein

Reported Applications: in vivo CD40 activation

in vitro B cell stimulation/activation

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 GRRID:AB_1107647Molecular Weight:150 kDa

Description

Formulation:

The FGK4.5 monoclonal antibody reacts with mouse CD40 also known as Bp50. CD40 is a 48 kDa type I transmembrane glycoprotein that belongs to the tumor necrosis factor receptor (TNFR) superfamily. CD40 is expressed broadly on antigen-presenting cells (APCs) such as dendritic cells, B cells, macrophages, and monocytes as well as non-immune endothelial cells, basal epithelial cells, and a range of tumors. Upon binding to its ligand CD154, CD40 acts as a costimulatory molecule for the activation of B cells, dendritic cells, monocytes, and other APCs. CD40 plays roles in B cell activation, differentiation, proliferation and Ig isotype switching as well as dendritic cell maturation. Agonistic CD40 monoclonal antibodies have been shown to activate APCs and promote anti-tumor T cell responses. The FGK4.5 antibody is an agonistic antibody that has been shown to activate CD40 expressing APCs. FGK4.5 can also be used to inhibit CD40/CD154 interaction in vitro and 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/m-cd40/#references or scan the QR code below.

Bio X Cell, Inc.

bxcell.com 1.866.787.3444

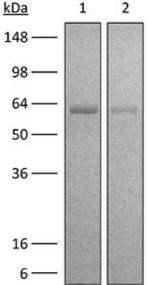
customerservice@bxcell.com

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 : 1 μ g reduced purified mouse CD40 with histidine & Fc tag at C-terminus Lane 2 : 0.5 μ g reduced purified mouse CD40 with histidine & Fc tag at C-terminus

Primary: anti-mouse CD40 antibody (FGK4.5) at 8 µg/ml

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

Predicted band size: 57 kDa

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