

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://bioxccl.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

Catalog Number: BP0003-1
 Clone: GK1.5
 Isotype: Rat IgG2b, κ
 Recommended Isotype Control(s): InVivoPlus rat IgG2b isotype control, anti-keyhole limpet hemocyanin
 Recommended Dilution Buffer: InVivoPure pH 6.5 Dilution Buffer
 Immunogen: Mouse CTL clone V4
 Reported Applications: *in vivo* CD4⁺ T cell depletion
 Flow cytometry
 Western blot
 Formulation: PBS, pH 6.5
 Contains no stabilizers or preservatives
 Endotoxin: ≤ 0.5 EU/mg (≤ 0.0005 EU/ μ g)
 Determined by LAL gel clotting assay
 Purity: $\geq 95\%$
 Determined by SDS-PAGE
 Sterility: 0.2 μ m filtration
 Production: Purified from cell culture supernatant in an animal-free facility
 Purification: Protein G
 Aggregation: $< 5\%$
 Determined by DLS
 RRID: [AB_1107636](https://identifiers.org/AB_1107636)
 Molecular Weight: 150 kDa

Murine Pathogen Test Results

Mouse Norovirus: Negative, Mouse Parvovirus: Negative, Mouse Minute Virus: Negative, Mouse Hepatitis Virus: Negative, Reovirus Screen: Negative, Lymphocytic Choriomeningitis virus: Negative, Lactate Dehydrogenase-Elevating Virus: Negative, Mouse Rotavirus: Negative, Theiler's Murine Encephalomyelitis: Negative, Ectromelia/Mousepox Virus: Negative, Hantavirus: Negative, Polyoma Virus: Negative, Mouse Adenovirus: Negative, Sendai Virus: Negative, Mycoplasma Pulmonis: Negative, Pneumonia Virus of Mice: Negative, Mouse Cytomegalovirus: Negative, K Virus: Negative

Description

The GK1.5 monoclonal antibody reacts with the mouse CD4. The CD4 antigen is a 55 kDa cell surface type I membrane glycoprotein belonging to the immunoglobulin superfamily. CD4 acts as a co-receptor which in cooperation with the T cell receptor (TCR) interacts with class II MHC molecules displayed by antigen presenting cells (APC). CD4 is expressed by the majority of thymocytes, most helper T cells, a subset of NK-T cells and weakly by dendritic cells and macrophages. CD4 plays an important role in the development of T cells and is required for mature T cells to function optimally. The GK1.5 antibody has been shown to compete with clones YTS 177 and YTS 191 for CD4 binding.

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

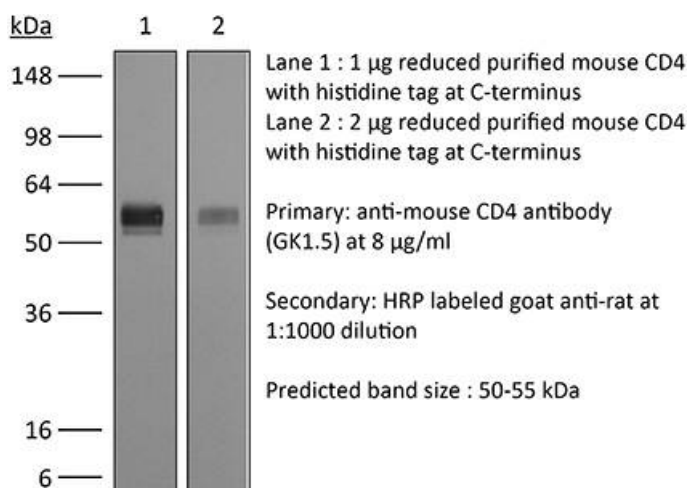
For a complete list of references, visit

https://bioxcell.com/bp0003-1?bxcs=9k1b3a#tab_references or scan the QR code below.



Binding Validation

Validation data shown below confirms that this clone binds to its target antigen. For lot specific binding validation data, e-mail technicalservice@bioxcell.com.



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