

## InVivoPlus anti-mouse CD4

### Lot Specific Information

<b>Lot Number:</b>	Lot Specific*
<b>Volume:</b>	Lot Specific*
<b>Concentration:</b>	Lot Specific* (generally 4 to 11 mg/ml) *
<b>Total Protein:</b>	Lot Specific*

\*This information will be noted on the certificate of analysis that ships with this product.

### Product Information

<b>Catalog Number:</b>	<b>BP0003-1</b>
<b>Clone:</b>	<b>GK1.5</b>
<b>Isotype:</b>	Rat IgG2b, $\kappa$
<b>Recommended Isotype Control(s):</b>	InVivoPlus rat IgG2b isotype control, anti-keyhole limpet hemocyanin
<b>Recommended Dilution Buffer:</b>	InVivoPure pH 6.5 Dilution Buffer
<b>Immunogen:</b>	Mouse CTL clone V4 <i>in vivo</i> CD4+ T cell depletion
<b>Reported Applications:</b>	Flow cytometry Western blot
<b>Formulation:</b>	PBS, pH 6.5 Contains no stabilizers or preservatives
<b>Endotoxin:</b>	<1EU/mg (<0.001EU/ $\mu$ g) Determined by LAL gel clotting assay
<b>Purity:</b>	>95% Determined by SDS-PAGE
<b>Sterility:</b>	0.2 $\mu$ M filtered
<b>Production:</b>	Purified from tissue culture supernatant in an animal free facility
<b>Purification:</b>	Protein G
<b>RRID:</b>	AB_1107636
<b>Molecular Weight:</b>	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.

### 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](http://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.

### Bio X Cell, Inc.

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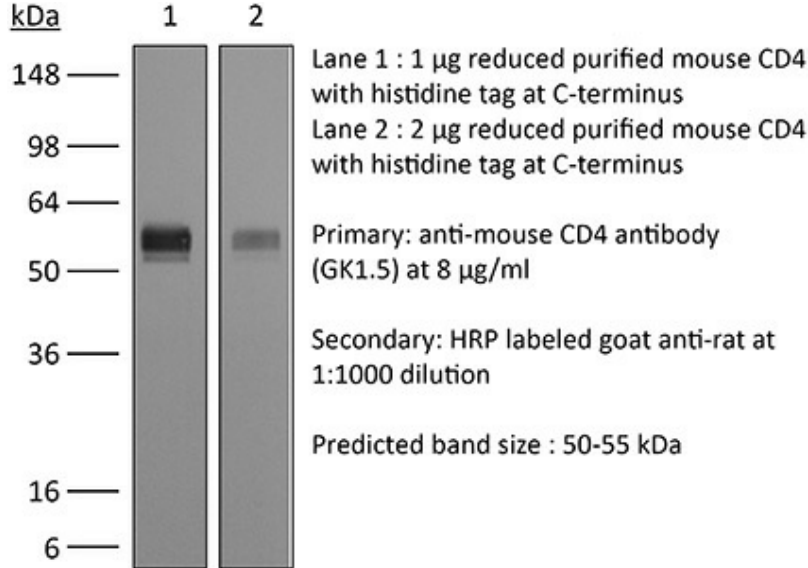
## Application References

For a complete list of references, visit <https://bxcell.com/product/invivoplus-anti-m-cd4/#references> or scan the QR code below.



## 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](mailto:technicalservice@bxcell.com).



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