

# Technical Data Sheet

## FlowMAb PE anti-mouse CD4



**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://bioxcell.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:** FM0003-1-PE  
**Clone:** GK1.5  
**Isotype:** Rat IgG2b, κ  
**Conjugation:** PE  
**Excitation Source:** Yellow-Green 488 nm, 532 nm, 561 nm  
**Excitation Max:** 496 nm, 566 nm  
**Emission Max:** 576 nm  
**Immunogen:** Mouse CTL clone V4  
**Reported Applications:** Flow cytometry  
**Formulation:** PBS, pH 6.5  
Contains 0.09% Sodium Azide  
**Production:** Purified from cell culture supernatant in an animal-free facility  
**Purification:** Protein G  
**RRID:** [AB\\_1107636](https://abnova.com/AB_1107636)

### Description

The GK1.5 monoclonal antibody reacts with the CD4 antigen of mouse and Syrian hamster species. 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 clone competes with clones YTS 177 and YTS 191 for CD4 binding. This R-phycoerythrin (R-PE or PE)-conjugated version of the GK1.5 antibody is useful for flow cytometry, immunofluorescence, and immunohistochemistry (frozen) applications.

### Storage

Store at the stock concentration at 4°C and protected from prolonged exposure to light . **Do not freeze.**

### Protocol Information

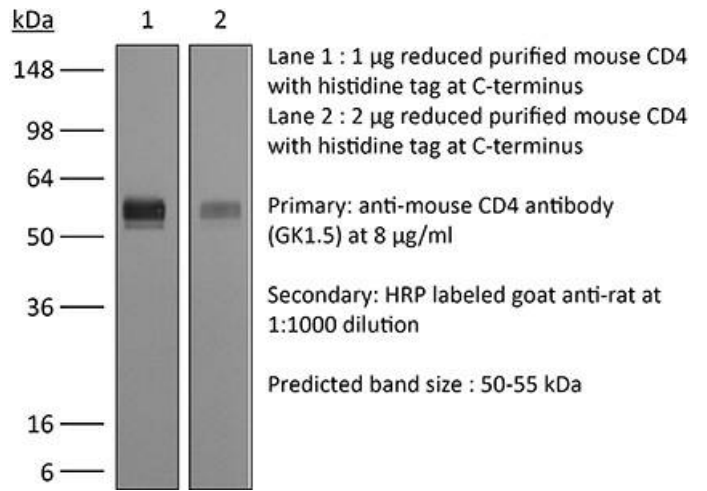
It is recommended that the reagent be carefully titrated for optimal performance in the assay of interest.

### Application References

For a complete list of references, visit [https://bioxcell.com/fm0003-1-pe?bxcs=9k1b3a#tab\\_references](https://bioxcell.com/fm0003-1-pe?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](mailto:technicalservice@bioxcell.com).



**Bio X Cell, LLC**

<https://bioxcell.com>

+1-866-787-3444

[customerservice@bioxcell.com](mailto:customerservice@bioxcell.com)

*Conditions: For research use only. Not for use in diagnostic or therapeutic procedures.*

*Not for resale.*

**Bio X Cell, Bio X Cell logo, and all other trademarks are the property of Bio X Cell, LLC © 2025 Bio X Cell, LLC**