

# CD4 Monoclonal Antibody (GK1.5), NovaFluor Blue 660-40S, eBioscience™

Product Details	
Size	25 µg
Species Reactivity	Mouse
Host/Isotype	Rat / IgG2b, kappa
Class	Monoclonal
Type	Antibody
Clone	GK1.5
Conjugate	NovaFluor™ Blue 660-40S
Form	Liquid
Concentration	0.1 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.2 µg/test	-

## Product Specific Information

**Description:** The GK1.5 monoclonal antibody reacts with the mouse CD4 molecule, a 55 kDa cell surface receptor expressed by a majority of thymocytes, subpopulation of mature T cells and dendritic cells. CD4 binds to MHC class II on the surface of antigen presenting cells and plays an important role both in T cell development and in optimal functioning of mature T cells. In T cells, CD4 associates with protein tyrosine kinase p56lck through its cytoplasmic tail. Binding of GK1.5 is blocked by RM4-5.

**Applications Reported:** This GK1.5 antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** This GK1.5 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.2 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

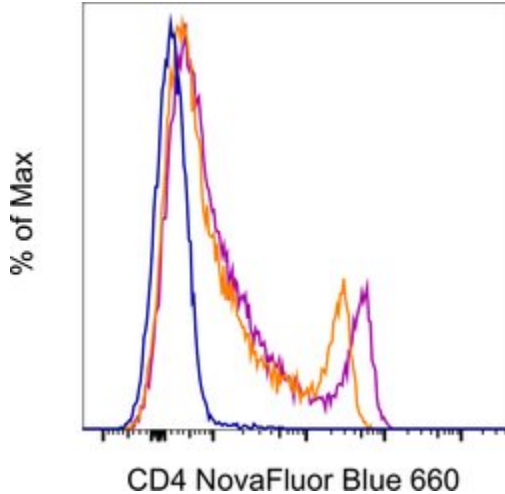
NovaFluor dyes are not compatible with DNA intercalating viability dyes. Do not use viability dyes such as propidium iodide, 7-actinomycin D (7-AAD) and DAPI. Invitrogen LIVE/DEAD Fixable Dead Cell stains are recommended for use with NovaFluor dyes.

Each NovaFluor conjugate or kit is shipped with CellBlox Blocking Buffer. Use this buffer whenever staining with NovaFluor conjugates, including single-color compensation controls using cells. Use 5 µL of CellBlox Blocking Buffer per stained cell sample containing 10<sup>3</sup> to 10<sup>8</sup> cells.

**Excitation:** 509 nm; **Emission:** 665 nm; **Laser:** 488 nm (Blue) Laser

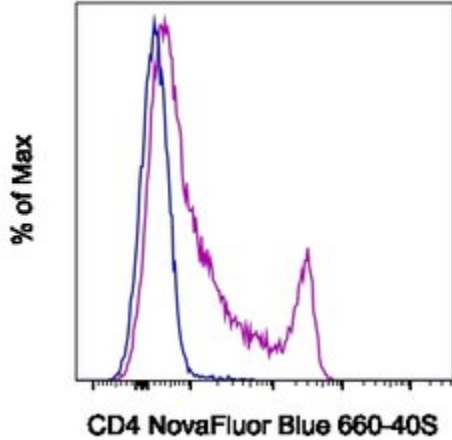
NovaFluor conjugates are based on Phiton™ technology utilizing novel nucleic acid dye structures that allow for engineered fluorescent signatures with consideration for spillover and spread impacts. Learn more

## Product Images For CD4 Monoclonal Antibody (GK1.5), NovaFluor Blue 660-40S, eBioscience™



### CD4 Antibody (M001T02B07) in Flow

C57BL/6 mouse splenocytes were either left unstained (blue histogram) or stained with 0.2 µg of CD4 Monoclonal Antibody, NovaFluor Blue 660-40S (orange histogram) or 0.2 µg of CD4 Monoclonal Antibody, NovaFluor Blue 660-120S (m001t02b08) (purple histogram) and acquired in the B7 channel on a 5-laser Cytex Aurora. Cells in the lymphocytes gate were used in the analysis.



### CD4 Antibody (M001T02B07) in Flow

C57BL/6 mouse splenocytes were either left unstained (blue histogram) or stained with 0.2 µg of CD4 Monoclonal Antibody, NovaFluor Blue 660-40S (Product # M001T02B07) (purple histogram) and acquired in the B7 channel on a 5-laser Cytex Aurora. Cells in the lymphocyte gate were used in the analysis.

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