

Catalog No. NIH-NA-01

Anti-CD4 Monoclonal Antibody

The two major subsets of T lymphocytes, helper and cytotoxic T cells, are defined by expression of CD4 or CD8 glycoproteins, respectively. T-cells expressing the CD4 surface antigen facilitate B-cell maturation and production of antibodies by B-cells, and are thus termed "helper" T cells. CD4⁺ helper T cells recognize exogenously derived peptides in the context of MHC class II molecule expressed on antigen presenting cells. One (D1) of four Ig-like extracellular domains of CD4 primarily interacts with the $\alpha 2$ and $\beta 2$ domains of the MHC class II heterodimer.

Product type	Primary Antibodies
Immunogen	ginbuna CD4-expressing Normal Rat Kidney cells (NRK)
Raised in	Rat (Wistar ST)
Myeloma	P3-X63.Ag8.653 mouse myeloma
Clone number	6D1
Isotype	IgG2a
Source	Serum free culture supernatant
Purification	Protein G
Buffer	PBS containing 0.05% NaN ₃ as a preservative
Concentration	1 mg/mL
Volume	50 μ l
Label	Unlabeled
Cross reactivity	Ginbuna crucian carp, Goldfish, Carp, Zebrafish
Storage	Store below -20°C (below -70°C for prolonged storage). Aliquot to avoid cycles of freeze/thaw.

Application notes Fluorescence - activated cell sorter: 10 μ g/mL (Ref. 1& 2)
This monoclonal antibody is not applicable for Western blotting and Immuno-histochemical analysis.
Optimal dilutions/concentrations should be determined by the end user.

- References**
1. Toda H., et al. Conservation of characteristics and functions of CD4 positive lymphocytes in a teleost fish. Dev Comp Immunol. (2011) 35 (6), 650-660.
 2. Shibasaki Y., et al. Kinetics of CD4⁺ and CD8 α ⁺ T-cell subsets in Graft-Versus-Host Reaction (GVHR) in ginbuna crucian carp Carassius auratus langsdorfii. Dev Comp Immunol. (2010) 34 (10), 1075-1081.

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