Rat anti-Mouse CD4/L3T4 Monoclonal Antibody | anti-Cd4 antibody

Rat Anti-Mouse CD4/L3T4-FITC

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA78666	**Rat**	**Mouse**	**Immunoprecipitation, Immunohistochemistry, Flow Cytometry, Functional Assay**

PRODUCT SYNONYMS

CD4/L3T4; Monoclonal Antibody; Rat Anti-Mouse CD4/L3T4-FITC; Rat Anti-Mouse CD4/L3T4 - FITC; Rat Anti-Mouse CD4/L3T4; anti-Cd4 antibody

PRODUCT SPECIFICATIONS

Host	Rat
Reactivity	Mouse
Clonality	Monoclonal
Isotype	Rat (Lewis) IgG2b kappa
Clone Number	GK1.5
Specificity	CD4/L3T4a, Mr 52 kDa CD4/L3T4 is a type I transmembrane glycoprotein expressed on most thymocytes and the helper/inducer subpopulation of mature T lymphocytes of all mouse strains tested.^1,2 CD4 has also been detected at low density on pluripotent hematopoietic stem cells, bone marrow myeloid precursors, and intrathymic lymphoid precursors. ^3-6 The CD4 antigen functions as a co-receptor, interacting with class II major histocompatability complex (MHC) molecules in the recognition of foreign antigens by T cells. ^1,2 In vivo and in vitro treatment with the GK1.5 mAb effectively depletes CD4^+ cells.^7,8 The mAb also blocks helper T cell responses to MHC class II antigens, including cytolysis, proliferation, allogeneic B cell help, and release of lymphokines.^1,8-13
Form/Format	Fluorescein (FITC) Conjugate
Sequence Length	457
Applicable Applications for anti-Cd4 antibody	IP (Immunoprecipitation), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry)
Immunogen	Cloned mouse CTL line V4
Characterization	To ensure lot-to-lot consistency, each batch of monoclonal antibody is tested by flow cytometry to conform to characteristics of a standard reference reagent. Representative data are included in this package insert.
Preparation and Storage	The purified (UNLB) antibody is supplied as 0.5 mg of purified immunoglobulin in 1.0 mL of 100 mM borate buffered saline, pH 8.2. No preservatives or amine-containing buffer salts added. Store at 2-8 degree C. The fluorescein (FITC) conjugate is supplied as 0.5 mg or 0.1 mg in 1.0 mL of PBS/NaN3. Store at 2-8 degree C. The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN3. Store at 2-8 degree C. The R-phycoerythrin (R-PE) conjugate is supplied as 0.1 mg in 1.0 mL or 0.2 mg in 2.0 mL of PBS/NaN3 and a stabilizing agent. Store at 2-8 degree C. Do not freeze! The allophycocyanin (APC) conjugate is supplied as as 0.1 mg in 1.0 mL of PBS/NaN3 and a stabilizing agent. Store at 2-8 degree C. Do not freeze! The Spectral Red (SPRD), R-phycoerythrin -Texas Red (R-PE-TXRD), R-phycoerythrin-Cyanine 7 (RPE- CY 7), R-phycoerythrin-Cyanine 5.5 (R-PE-CY 5.5 Allophycocyanin-Cyanine 5.5 (APC-CY 5.5), and Allophycocyanin-Cyanine 7 (APC-CY 7) conjugates are supplied as 0.1 mg in 1.0 mL of PBS/NaN3 and a stabilizing agent. Store at 2-8 degree C. Do not freeze! The low endotoxin, azide-free (LE/AF) antibody is supplied as 0.5 mg purified immunoglobulin in 1.0 mL of PBS. Aliquot and store at or below -20 degree C. The Cyanine 5 (CY 5) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaN3. Store at 2-8 degree C. Protect conjugated forms from light. Aliquot and freeze the low endotoxin, azide-free product at -20 degree C immediately upon receipt. Each reagent is stable for the period shown on the bottle label if stored as directed.

ADDITIONAL INFORMATION

References	1. Dialynas, D. P., D. B. Wilde, P. Marrack, et al. 1983. Immunol. Rev. 74:29. 2. Lakey, E. K., E. Margoliash, F. W. Fitch, and S. K. Pierce. 1986. J. Immunol. 136:3933. 3. Frederickson, G.G., and R.S. Basch. 1989. J. Exp. Med. 1969:1473. 4. Wineman, J.P., G.L. Gilmore, C. Gritzmacher, B.E. Torbett, and C.E. Muller-Sieburg. 1992. Blood 60:1717. 5. Wu, L., R. Scollay, M. Egerton, M. Pearse, G.J. Spangrude, and K. Shortman. 1991. Nature 349:71. 6. Mage, M. G. 1991. In Current Protocols in Immunology John Wiley & Sons, New York, p. 3.4.1. 7. Kruisbeek, A. M., et al. 1991. In Current Protocols in Immunology. John Wiley & Sons, New York, p. 4.1.1. 8. Dialynas, D. P., Z. S. Quan, K. A. Wall, et al. 1983. J. Immunol. 131:2445. 9. Swain, S. L., D. P. Dialynas, F. W. Fitch, and M. English. 1984. J. Immunol. 132:1118. 10. Havran, W. L. and F. W. Fitch. 1988. J. Immunol. 141:1808. 11. Bluestone, J.A., R.Q. Cron, T.A. Barrett, et al. 1991. Immunol. Rev. 120:5. 12. Moldwin, R. L., G. J. Nau, W. L. Havran, D. W. Lancki, and F. W. Fitch. 1987. Ann. Inst. Pasteur Immunol. 138:131. 13. Haque, S., K. Saizawa, J. Rojo, and C. A. Janeway, Jr. 1987. J. Immunol. 139:3207. 14. Mage, M. G. 1991. In Current Protocols in Immunology John Wiley and Sons, New York, p. 3.5.1. 15. Jia, W. and J. F. Kearney. 1996. Personal communication.

NCBI AND UNIPROT INFORMATION

NCBI GI #	24659577
NCBI GeneID	12504
UniProt Accession #	P06332; O55054; P70443; Q3TSV7; Q61396
Molecular Weight	51,297 Da
NCBI Official Full Name	CD4 antigen
NCBI Official Synonym Full Names	CD4 antigen
NCBI Official Symbol	Cd4
NCBI Official Synonym Symbols	L3T4; Ly-4
NCBI Protein Information	T-cell surface glycoprotein CD4; OTTMUSP00000027399; T-cell surface antigen T4/Leu-3; T-cell differentiation antigen L3T4; T-cell surface glycoprotein CD4 precursor (T-cell surface antigen T4/Leu-3) (T-cell differentiation antigen L3T4)
UniProt Protein Name	T-cell surface glycoprotein CD4
UniProt Gene Name	**Cd4**
UniProt Entry Name	CD4_MOUSE

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