

Mouse anti-Human CD4 Monoclonal Antibody | anti-CD4 antibody

Mouse Anti-Human CD4-CY5

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA78752	Mouse	Human	Immunoprecipitation, Immunohistochemistry, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

CD4; Monoclonal Antibody; Mouse Anti-Human CD4-CY5; Mouse Anti-Human CD4 - Cyanine5-Labeled; Mouse Anti-Human CD4; anti-CD4 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse IgG1
Clone Number	RFT-4g
Specificity	Human CD4 CD4 is a 59 kDa type I transmembrane glycoprotein and a member of the Ig-SF of cell surface receptors. It is expressed predominantly on the "helper/inducer" subpopulation of mature T lymphocytes, and on monocytes and macrophages. Domains 1 and 2 bind to MHC Class II antigens, while domains 3 and 4 may be involved in cis interactions with the CD3/TCR complex. CD4 functions as an accessory molecule in the recognition of foreign antigens in association with MHC Class II antigens by T cells.1-6
Form/Format	Cyanine 5 (CY5) Conjugate
Sequence Length	71
Applicable Applications for anti-CD4 antibody	IP (Immunoprecipitation), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry)
Characterization	To insure lot-to-lot consistency, each batch of product is tested by flow cytometry to conform to the characteristics of a standard reference reagent.
Preparation and Storage	The purified (UNLB) antibody is supplied as 0.1 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), Alexa Fluor 647 (AF647), and Cyanine 5 (CY 5) conjugates are supplied as 100 tests in 1.0 mL PBS/NaN3. Store at 2-8 degree C. The biotin (BIOT) conjugate is supplied as 100 tests in 1.0 mL PBS/NaN3. Store at 2-8 degree C. The R-phycoerythrin (R-PE) and Allophycocyanin (APC) conjugates are supplied as 100 tests 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 5.5 (R-PE-CY 5.5), R-phycoerythrin-Cyanine 7 (R-PE-CY 7) and Allophycocyanin-Cyanine 7 (APCCY 7) conjugates are supplied as 100 tests 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 0.1 mg purified immunoglobulin in 0.2 mL of PBS. Aliquot and store at or below -20 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. McMichael, A.K., P.C.L. Beverly, S. Cobbold, M.J. Crumpton, W. Gilks, F.M. Gotch, N. Hogg, M. Horton, N. Ling, I.C.M. MacLennan, D.Y. Mason, C. Milstein, D. Spiegelhalter, and H. Waldmann, eds. 1987. Leukocyte Typing III: White Cell Differentiation Antigens, Oxford University Press, Oxford. 2. Barclay, A.N., M.H. Brown, S.K.A. Law, A.J. McKnight, M.G. Tomlinson, and P.A. van der Merwe, eds. 1997. The Leukocyte Antigens Facts Book, 2nd Edition, CD4 Section, Academic Press, New York, p. 141. 3. Parne, J.R. 1984. Adv. Immunol. 44:265. 4. Littman, D.R., ed. 1996. The CD4 Molecule. In: Curr. Top. Microbiol. Immunol. 205. 5. Sakihama, T., A. Smolyar, and E.L. Reinherz. 1995. Immunol. Today 16:581. 6. Vignali, D.A., R.T. Carson, B. Chang, R.S. Mittler, and J.L. Strominger. 1996. J. Exp. Med. 183:2097.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	3947700
NCBI GeneID	920
UniProt Accession #	Q13969; P01730; Q6LCP8
Molecular Weight	7,844 Da
NCBI Official Full Name	CD4
NCBI Official Synonym Full Names	CD4 molecule
NCBI Official Symbol	CD4
NCBI Official Synonym Symbols	CD4mut
NCBI Protein Information	T-cell surface glycoprotein CD4; CD4 receptor; CD4 antigen (p55); OTTHUMP00000238897; T-cell surface antigen T4/Leu-3
UniProt Protein Name	CD4 protein
UniProt Gene Name	CD4
UniProt Synonym Gene Names	CD4 receptor
UniProt Entry Name	Q13969_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.