

Mouse CD4 Monoclonal Antibody | anti-CD4 antibody

anti-human CD4-Purified Preservative Free

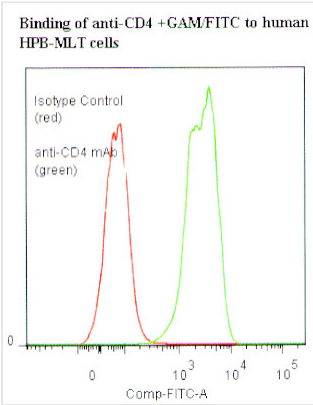
CATALOG #	HOST	APPLICATIONS
AAA14857	Mouse	Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

CD4; Monoclonal Antibody; anti-human CD4-Purified Preservative Free; Monoclonal anti-human CD4; anti-CD4 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Clonality	Monoclonal
Isotype	Mouse IgG1
Clone Number	QS4120
Form/Format	50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl
Concentration	1.0 mg/ml (varies by lot)
Sequence Length	71
Applicable Applications for anti-CD4 antibody	FCM/FACS (Flow Cytometry)
Performance	Five x 10 ⁵ cultured HPB-MLT human tumor cells were washed and incubated 45 minutes on ice with 80 ul of anti-CD4 antibody at 5 ug/ml. Cells were washed twice and incubated with 2°C reagent Goat anti-Mouse IgG/FITC, after which they were washed three times, fixed and analyzed by Flow Cytometry (FC). Cells stained positive with a mean shift of 1.60 log ₁₀ fluorescent units when compared to a Mouse IgG1 negative control at a similar concentration.
Production	Antibody was Protein A purified from (low FBS containing) tissue culture supernatant. Purity was >95% Immunoglobulin by SDS-PAGE and contains less than 1% Bovine Immunoglobulin. Product was 0.2u sterile filtered and vialled under aseptic conditions.
Immunogen	CD4+ transfectant/ CEM
Preparation and Storage	Store at 2-5 degree C . Open under aseptic conditions. Freeze/Thawing is not recommended. Product should retain activity for at least 12 months after date of receipt when stored as recommended.



FCM (Flow Cytometry)

ADDITIONAL INFORMATION

Related Product Information for anti-CD4 antibody	Information: Human CD4 is a cell surface glycoprotein of 55 kd expressed on most thymocytes, on about two thirds of peripheral T cells, and on some monocyte macrophage lineage cells. CD4 interacts with MHC Class II molecules in an accessory role during foreign antigen recognition by T cells. The extracellular portion of CD4 is an array of four Ig-like domains. The amino terminal region of CD4 is a receptor for the HIV-1 viral protein gp120. Antibody QS4120 recognizes the domain 1 region of the CD4 molecule. Antibody QS4120 will block binding of HIV-1 gp120 protein to CD4 and also blocks HLA Class II Rosette formation.
References	D. Healey, et al, (1990) J Exp Med 172: 1233-1242. Leukocyte Typing IV (W. Knapp, et al, eds.) Oxford University Press, Oxford, (1989) p. 314-330. Leukocyte Typing V (S.F. Schlossman, et al, eds.) Oxford University Press, Oxford, (1995) p. 476-478. R. König, et al, (1995) J Exp Med 182: 779-787.

NCBI AND UNIPROT INFORMATION

NCBI GI #	3947700
NCBI GeneID	920
UniProt Accession #	Q13969; P01730
NCBI Official Full Name	CD4, partial
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); T-cell surface antigen T4/Leu-3
UniProt Protein Name	CD4 protein
UniProt Gene Name	CD4
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.