

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

anti-human CD4-R-PE

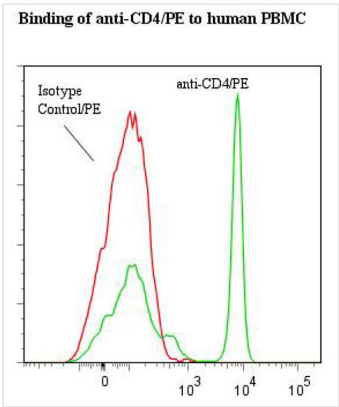
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA78172	Mouse	Human	ELISA, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

CD4; Monoclonal Antibody; anti-human CD4-R-PE; Monoclonal anti-human CD4/R-PE; anti-CD4 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1k
Clone Number	QS4120
Form/Format	50 mM Sodium Phosphate pH 7.5, 500 mM Potassium Chloride, 150mM NaCl, 15% Glycerol, 0.2% BSA.
Concentration	Volume: 0.2ml (varies by lot)
Sequence Length	71
Applicable Applications for anti-CD4 antibody	Blocking, ELISA, FCM/FACS (Flow Cytometry)
Performance	Five x 10 ⁵ ficoll prepared human PBMC were washed and incubated 45 minutes on ice with 80 ul of anti-CD4/R-PE at a dilution factor of 1:50 (10 ug/ml). Cells were washed three times, fixed and analyzed by FACS. A 39.8% sub population of the cells stained positive with a mean shift of 1.88 log ₁₀ fluorescent units when compared to a Mouse IgG1/PE negative control at a similar concentration. Binding was blocked when cells were pre incubated 10 minutes with 20 ul of 0.5 mg/ml anti-CD4 antibody.
Conjugation	PE
Production	Protein A purified antibody from tissue culture supernatant was conjugated to R-Phycoerythrin through a sulfo-ester linkage. Unconjugated antibody was removed using size exclusion chromatography. Antibody conjugate is at 0.5 mg/ml, with an A565/A280 ratio of 3.47.
Buffer	50 mM Sodium Phosphate pH 7.5, 500 mM Potassium Chloride, 150mM NaCl, 15% Glycerol, 0.2% BSA, 0.04% NaN ₃ (as a preservative).
Immunogen	CD4+ transfectant/human CEM
Preparation and Storage	Store at 2 - 5 degree C. Do not freeze! Protect from light. Product should retain activity for at least 12 months after shipping date when stored as recommended.



Application Data

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
Molecular Weight	7,844 Da
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.