

Mouse CD4 Monoclonal Antibody | anti-CD4 antibody

CD4 (T-Helper/Inducer Cell Marker) Mouse Monoclonal Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA62884	Mouse	Human, Chimpanzee, Orangutan, Macaca artctoids (Stumptail Monkey).Does not react with Macaca mulatta (rhesus Monkey).Others not tested	Immunofluorescence, Flow Cytometry, Functional Assay, Functional Assay

PRODUCT SYNONYMS

CD4; Monoclonal Antibody; CD4 (T-Helper/Inducer Cell Marker) Mouse Monoclonal Antibody; L3T4; Leu3; Ly-4; Lymphocyte antigen CD4; p55; T cell antigen T4/LEU3; T cell differentiation antigen L3T4; T-cell surface antigen T4/Leu-3; T-cell surface glycoprotein CD4; anti-CD4 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Chimpanzee, Orangutan, Macaca artctoids (Stumptail Monkey). Does not react with Macaca mulatta (rhesus Monkey). Others not tested
Clonality	Monoclonal
Isotype	IgG2a, kappa
Clone Number	EDU-2
Specificity	Recognizes a protein of 55kDa, identified as CD4. It is a membrane glycoprotein of T lymphocytes that interacts with major histocompatibility complex class II antigens and is also a receptor for the human immunodeficiency virus. This protein is expressed not only in T lymphocytes, but also in B cells, macrophages, and granulocytes. It is also expressed in specific regions of the brain. The protein functions to initiate or augment the early phase of T-cell activation, and may function as an important mediator of indirect neuronal damage in infectious and immune-mediated diseases of the central nervous system. Multiple alternatively spliced transcript variants encoding different isoforms have been identified. This MAb was characterized as human CD4 antibody at II and IV International Workshop on Human Leukocyte Differentiation Antigens.
Form/Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	458
Applicable Applications for anti-CD4 antibody	IF (Immunofluorescence), FCM/FACS (Flow Cytometry), FA (Functional Assay)
Cellular Localization	Cell Surface
Immunogen	Stimulated human leukocytes
Hu-Chromosome Location	12p13.31
Positive Control	Human peripheral blood mononuclear cells (PBMCs), CCRF-CEM or HL-60. Lymph node or tonsil.
Preparation and Storage	Antibody without azide - store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

ADDITIONAL INFORMATION

References	Reinberz EL et al. eds. Leykcocyte Typing II, Springer-Verlag, Berlin, 1985. Knapp W. et. al. (eds) Leukocyte Typing IV, p314-330, Oxford University Press, Oxford, 1989.Sattentau QJ, et al. The CD4 antigen: physiological ligand and HIV receptor. Cell. 1988, 52(5):631-633. Gaubin M, et al. Molecular basis of T lymphocyte CD4 antigen functions. Eur J Clin Chem Clin Biochem. 1996, 34(9):723-728.Mazerolles F, et al. Down regulation of T-cell adhesion by CD4. Hum Immunol. 1991, 31(1):40-6
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NCBI AND UNIPROT INFORMATION

NCBI GI #	10835167
NCBI GeneID	920
NCBI Accession #	NP_000607.1
NCBI GenBank Nucleotide #	NM_000616.4
UniProt Accession #	P01730; Q4ZGK2; Q5U066; Q9UDE5; B2R737; D3DUS5
Molecular Weight	55kDa
NCBI Official Full Name	T-cell surface glycoprotein CD4 isoform 1
NCBI Official Synonym Full Names	CD4 molecule
NCBI Official Symbol	CD4
NCBI Official Synonym Symbols	CD4mut
NCBI Protein Information	T-cell surface glycoprotein CD4
UniProt Protein Name	T-cell surface glycoprotein CD4
UniProt Gene Name	CD4
UniProt Entry Name	CD4_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.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cd4-antibody-clone-edu-2-immunofluorescence-flow-cytometry-functional-assay-elisa/62884>