

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

Mouse Monoclonal Antibody (Mab)

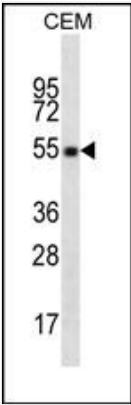
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA283569	Mouse	Human	ELISA, Western Blot

PRODUCT SYNONYMS

CD4; Monoclonal Antibody; Mouse Monoclonal Antibody (Mab); T-cell surface glycoprotein CD4; T-cell surface antigen T4/Leu-3; anti-CD4 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2b,k
Clone Number	OKT4
Specificity	This CD4 monoclonal antibody is generated from mouse immunized with CD4 recombinant protein.
Form/Format	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.
Concentration	Vial Concentration: 0.47mg/ml (varies by lot)
Sequence Length	458
Applicable Applications for anti-CD4 antibody	ELISA, WB (Western Blot)
Antigen Source	HUMAN
Function	Accessory protein for MHC class-II antigen/T-cell receptor interaction. May regulate T-cell activation. Induces the aggregation of lipid rafts.
Cellular Location	Cell membrane; Single-pass type I membrane protein Note=Localizes to lipid rafts. Removed from plasma membrane by HIV-1 Nef protein that increases clathrin-dependent endocytosis of this antigen to target it to lysosomal degradation. Cell surface expression is also down-modulated by HIV-1 Envelope polyprotein gp160 that interacts with, and sequesters CD4 in the endoplasmic reticulum
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



WB (Western Blot)
CD4 Antibody western blot analysis in CEM cell line lysates (35ug/lane). This demonstrates the CD4 antibody detected the CD4 protein (arrow).

ADDITIONAL INFORMATION

Related Product Information for anti-CD4 antibody	This gene encodes 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 gene 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 in this gene.
Product Categories/Family for anti-CD4 antibody	Immunology; Signal Transduction
References	Pourghesari, B., et al. Blood 116(16):2968-2974(2010) Rudd, C.E., et al. J. Immunol. 185(5):2645-2649(2010) Ammirati, E., et al. Arterioscler. Thromb. Vasc. Biol. 30(9):1832-1841(2010) Schenkel, J.M., et al. J. Immunol. 185(4):2013-2019(2010) Lee, K.M., et al. Am. J. Hematol. 85(8):560-563(2010)

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
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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://www.aaabiotech.com/monoclonal/cd4-antibody-clone-okt4-western-blot-elisa/283569>