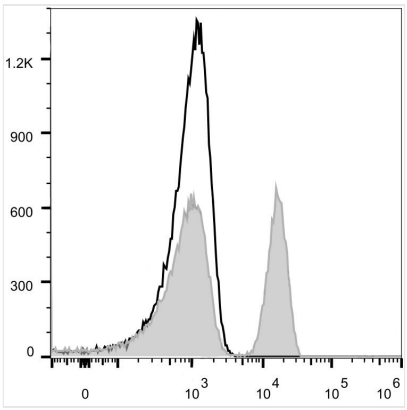
CD4 Antibody – Mouse

PRODUCT OVERVIEW

Product Name	CD4, Antibody
Full Product Name	Fluor Violet 540 Anti-Human/Monkey CD4 Antibody [SK3]
Product Gene Name	anti-CD4 antibody
Product Synonym Names	T-cell surface antigen T4/Leu-3; T-cell surface glycoprotein CD4
Isotype	IgG1, kappa
Clone Number	SK3
Host	Mouse
Species Reactivity	Human, Rhesus, Cynomolgus
Preparation and Storage	This product can be stored at 2-8 degree C for 12 months. Please protected from prolonged exposure to light and do not freeze.
Matching Pairs	Antibody: CD4 Clone #SK3 (MBS2585672) Isotype Control: IgG1, kappa Clone #MOPC-21 (MBS2585374)
Molecular Weight	51,111 Da
Chromosome Location	Chromosome: 12; NC_000012.11 (6898638..6929976). Location: 12p13.31
OMIM	186940
3D Structure	ModBase 3D Structure for P01730
Conjugation	FluorViolet 540
Product Categories/Family for anti-CD4 antibody	Antibodies and Reagents; Primary Antibodies; Flow Cytometry Antibodies
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CD4 antibody	Flow Cytometry (FC/FACS)
Related Product Information for anti-CD4 antibody	MBS2585672 is an antibody targeting CD4. Also known as Fluor Violet 540 Anti-Human/Monkey CD4 Antibody [SK3]. Reactive in Human, Rhesus, Cynomolgus. Host: Mouse.
Other Notes	Small volumes of anti-CD4 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Flow Cytometry (FC/FACS) of anti-CD4 antibody
Staining of normal human peripheral blood cells with Fluor® Violet 540 Anti-Human/Monkey CD4 Antibody[SK3](filled gray histogram) or Fluor® Violet 540 Mouse IgG1, ? Isotype Control(empty black histogram). Cells in the lymphocytes gate were used for analysis.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD4. It may not necessarily be applicable to this product.

NCBI GI #	920
NCBI GeneID	920
NCBI Accession #	NP_000607.1
UniProt Primary Accession #	P01730
UniProt Secondary Accession #	Q4ZGK2; Q5U066; Q9UDE5; B2R737; D3DUS5
UniProt Related Accession #	P01730
GenBank Nucleotide #	NM_000616.4
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
UniProt Protein Name	T-cell surface glycoprotein CD4
UniProt Synonym Protein Names	T-cell surface antigen T4/Leu-3
Protein Family	T-cell surface glycoprotein
UniProt Gene Name	CD4
UniProt Entry Name	CD4_HUMAN
NCBI Protein Information	T-cell surface glycoprotein CD4; CD4 receptor; CD4 antigen (p55); T-cell surface antigen T4/Leu-3
NCBI Summary for CD4	This gene encodes a membrane glycoprotein of T lymphocytes that interacts with major histocompatibility complex class II antigenes 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. [provided by RefSeq, Aug 2010]

UniProt Comments for CD4	CD4: Accessory protein for MHC class-II antigen/T-cell receptor interaction. May regulate T-cell activation. Induces the aggregation of lipid rafts. Associates with LCK. Binds to HIV-1 gp120 and to P4HB/PDI and upon HIV-1 binding to the cell membrane, is part of P4HB/PDI- CD4-CXCR4-gp120 complex. Interacts with HIV-1 Envelope polyprotein gp160 and protein Vpu. Interacts with Human Herpes virus 7 capsid proteins. Interacts with PTK2/FAK1; this interaction requires the presence of HIV-1 gp120. Protein type: Cell surface; Membrane protein, integral Chromosomal Location of Human Ortholog: 12p13.31 Cellular Component: T cell receptor complex; endoplasmic reticulum membrane; endoplasmic reticulum lumen; early endosome; integral to membrane; plasma membrane; external side of plasma membrane; lipid raft Molecular Function: protein binding; transmembrane receptor activity; protein homodimerization activity; enzyme binding; zinc ion binding; extracellular matrix structural constituent; coreceptor activity; receptor activity; glycoprotein binding; protein kinase binding; MHC class II protein binding Biological Process: maintenance of cellular protein localization; viral reproduction; positive regulation of interleukin-2 biosynthetic process; cytokine production; T cell selection; positive regulation of calcium-mediated signaling; induction by virus of cell-cell fusion in host; defense response to Gram-negative bacterium; signal transduction; T cell receptor signaling pathway; enzyme linked receptor protein signaling pathway; regulation of defense response to virus by virus; positive regulation of peptidyl-tyrosine phosphorylation; cell surface receptor linked signal transduction; positive regulation of protein kinase activity; T cell costimulation; protein palmitoleylation; innate immune response; immune response; entry into host cell; transmembrane receptor protein tyrosine kinase signaling pathway; regulation of T cell activation; T cell differentiation Disease: Okt4 Epitope Deficiency
Research Articles on CD4	**1.** Promoter methylation regulates SAMHD1 gene expression in human CD4+ T cells
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