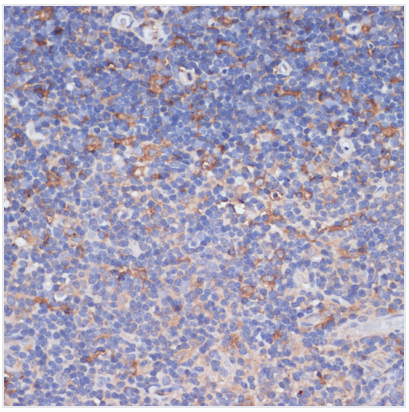
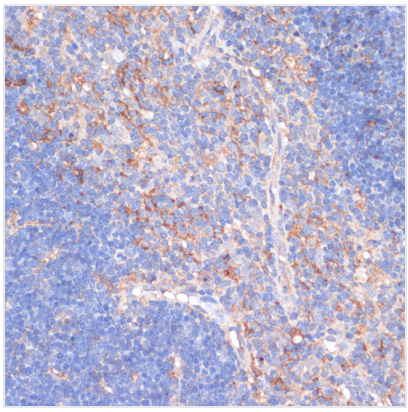
CD4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

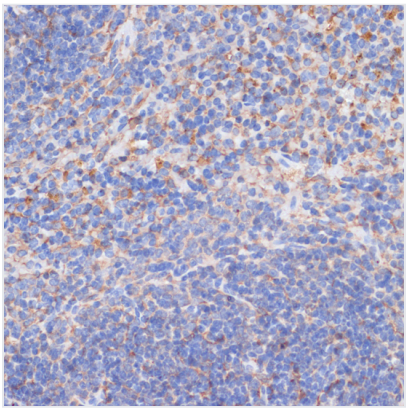
Product Name	CD4, Polyclonal Antibody
Full Product Name	CD4 Rabbit Polyclonal Antibody
Product Gene Name	anti-CD4 antibody
Product Synonym Names	CD4; CD4mut
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Purity/Purification	Affinity purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
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
Immunogen	Recombinant fusion protein of human CD4 (NP_000607.1).
Product Categories/Family for anti-CD4 antibody	Primary Antibody
Applications Tested/Suitable for anti-CD4 antibody	Western Blot (WB), Immunofluorescence (IF)
Application Notes for anti-CD4 antibody	WB: 1:500-1:2000 IF: 1:50-1:200
Related Product Information for anti-CD4 antibody	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.
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.
Searchable Terms for CD4 purchase	MBS9464309 is an antibody targeting CD4. Also known as CD4 Rabbit Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



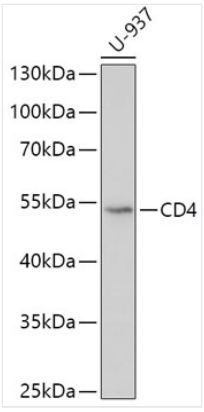
Immunohistochemistry (IHC) of anti-CD4 antibody
Immunohistochemistry of paraffin-embedded rat thymus using CD4 at dilution of 1:200 (40x lens).



Immunohistochemistry (IHC) of anti-CD4 antibody
Immunohistochemistry of paraffin-embedded mouse thymus using CD4 at dilution of 1:200 (40x lens).



Immunohistochemistry (IHC) of anti-CD4 antibody
Immunohistochemistry of paraffin-embedded mouse spleen using CD4 at dilution of 1:200 (40x lens).



Western Blot (WB) of anti-CD4 antibody
Western blot analysis of extracts of U-937 cells, using CD4 at 1:500 dilution.

ADDITIONAL DETAILS

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

NCBI GI #	10835167
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
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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