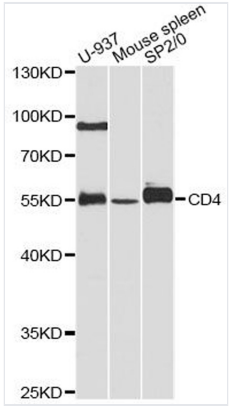
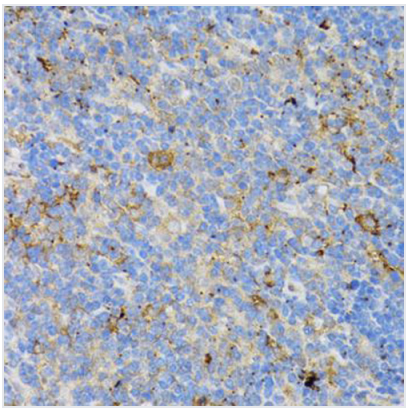
CD4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

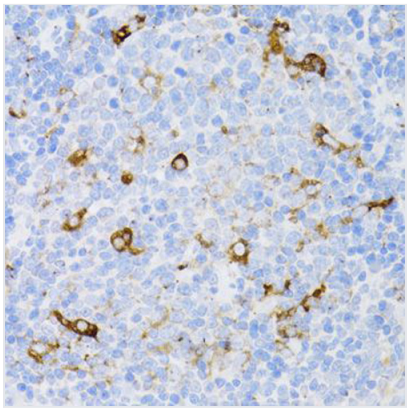
Product Name	CD4, Polyclonal Antibody
Full Product Name	CD4 Rabbit pab Antibody
Product Gene Name	anti-CD4 antibody
Product Synonym Names	CD4; CD4 ; CD4 ; CD4; CD4mut ;
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	PBS with 0.05% proclin300,50% glycerol,pH7.3.
Purity/Purification	Affinity purification
Preparation and Storage	Upon delivery aliquot and store at -20 degree C or -80 degree C.
Molecular Weight	458
Chromosome Location	Chromosome: 12; NC_000012.11 (6898638..6929976). Location: 12p13.31
OMIM	186940
3D Structure	ModBase 3D Structure for P01730
Immunogen	A synthetic -peptide of human CD4
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CD4 antibody	Western Blot (WB), Immunocytochemistry (ICC), Flow Cytometry (FC/FACS)
Application Notes for anti-CD4 antibody	Western Blot (WB): 1/500-1000 Immunocytochemistry (ICC): 1/50-100 Flow Cytometry (FC/FACS): 1/50-200
Related Product Information for anti-CD4 antibody	Rabbit polyclonal to CD4 Cluster of Differentiation 4 (CD4) is a glycoprotein composed of an amino-terminal extracellular domain (four domains: D1-D4 with Ig-like structures), a transmembrane part and a short cytoplasmic tail. CD4 is expressed on the surface of T helper cells, regulatory T cells, monocytes, macrophages and dendritic cells, and plays an important role in the development and activation of T cells. On T cells, CD4 is the co-receptor for the T cell receptor (TCR), and these two distinct structures recognize the Antigen-Major Histocompatibility Complex (MHC). Specifically, the D1 domain of CD4 interacts with the beta2-domain of the MHC class II molecule. CD4 ensures specificity of the TCR-antigen interaction, prolongs the contact between the T cell and the antigen presenting cell and recruits the tyrosine kinase Lck, which is essential for T cell activation (1).
Product References and Citations for anti-CD4 antibody	1. Zamoyska, R. (1994) Immunity 1, 243-246.
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	MBS125744 is an antibody targeting CD4. Also known as CD4 Rabbit pab Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



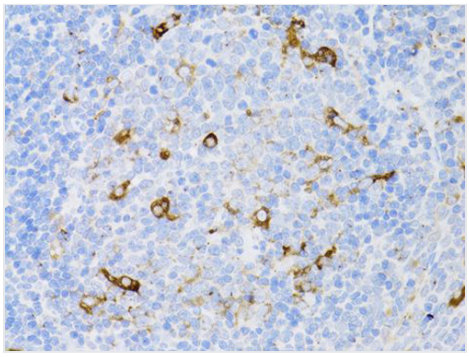
Western Blot (WB) of anti-CD4 antibody
Western blot analysis of extracts of various cell lines, using CD4 antibody at 1:1000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (MBS128200) at 1:10000 dilution.Lysates/proteins: 25ug per lane.Blocking buffer: 3% nonfat dry milk in TBST.Detection: ECL Basic Kit.Exposure time: 90s.



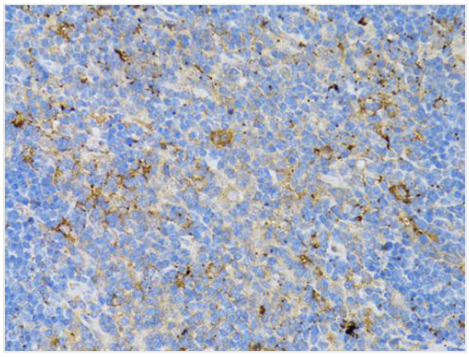
Immunohistochemistry (IHC) of anti-CD4 antibody
Immunohistochemistry of paraffin-embedded mouse thymus using CD4 antibody at dilution of 1:100 (40x lens).



Immunohistochemistry (IHC) of anti-CD4 antibody
Immunohistochemistry of paraffin-embedded rat spleen using CD4 antibody at dilution of 1:100 (40x lens).



Immunohistochemistry (IHC) of anti-CD4 antibody
Immunohistochemistry of paraffin-embedded rat spleen using CD4 antibody at dilution of 1:50 (40x lens).



Immunohistochemistry (IHC) of anti-CD4 antibody
Immunohistochemistry of paraffin-embedded mouse thymus using CD4 antibody at dilution of 1:50 (40x lens).

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
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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