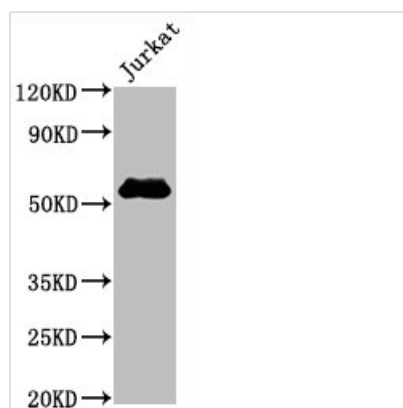




# CD4 Recombinant Monoclonal Antibody

<b>Product Code</b>	CSB-RA004935A0HU
<b>Abbreviation</b>	T-cell surface glycoprotein CD4
<b>Storage</b>	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
<b>Uniprot No.</b>	P01730
<b>Immunogen</b>	A synthesized peptide
<b>Species Reactivity</b>	Human
<b>Tested Applications</b>	ELISA, WB, IHC; Recommended dilution: WB:1:500-1:5000, IHC:1:50-1:500
<b>Relevance</b>	Accessory protein for MHC class-II antigen/T-cell receptor interaction. May regulate T-cell activation. Induces the aggregation of lipid rafts.
<b>Form</b>	Liquid
<b>Conjugate</b>	Non-conjugated
<b>Storage Buffer</b>	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
<b>Purification Method</b>	Affinity-chromatography
<b>Isotype</b>	Rabbit IgG
<b>Clonality</b>	Monoclonal
<b>Alias</b>	T-cell surface glycoprotein CD4, T-cell surface antigen T4/Leu-3, CD4, CD4
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Research Area</b>	Immunology
<b>Gene Names</b>	CD4
<b>Clone No.</b>	2B7

## Image



### Western Blot

Positive WB detected in Jurkat whole cell lysate

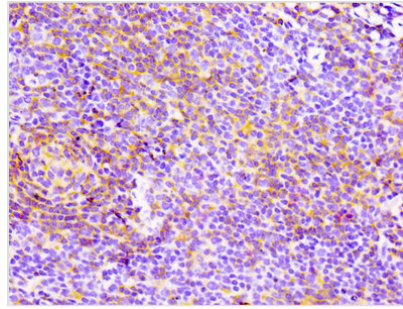
All lanes CD4 antibody at 0.8μg/ml

Secondary

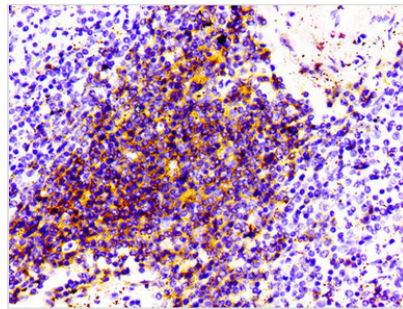
Goat polyclonal to rabbit IgG at 1/50000 dilution

Predicted band size: 55 KDa

Observed band size: 55 KDa



IHC image of CSB-RA004935A0HU diluted at 1:100 and staining in paraffin-embedded human lymph node tissue performed on a Leica Bond<sup>TM</sup> system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4<sup>o</sup> overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



IHC image of CSB-RA004935A0HU diluted at 1:100 and staining in paraffin-embedded human spleen tissue performed on a Leica Bond<sup>TM</sup> system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4<sup>o</sup> overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.

## Description

The CD4 recombinant monoclonal antibody is a highly specific antibody against the human CD4 protein. This CD4 antibody was produced in vitro by transfecting human CD4 monoclonal antibody gene- vector clones into the cell line, followed by affinity-chromatography purification from the tissue culture supernatant (TCS). The mice were immunized with a human CD4 synthetic peptide to produce the human CD4 monoclonal antibody. This CD4 antibody has the same isotype as rabbit IgG. It can be applied in ELISA, WB, and IHC.

T cells, natural killer (NK) cells, monocytes, and macrophages all express the CD4 coreceptor. CD4 regulates differentiation, migration, and cytokine expression in macrophages and NK cells. It plays a role in thymic development and antigen recognition in the periphery in T lymphocytes.