

CD4

Reactivity:Human Mouse

Tested applications:WB

Recommended Dilution:WB 1:500 - 1:2000

Calculated MW:55kDa

Observed MW:Refer to Figures

Immunogen:

A synthetic peptide of human CD4

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Synonym:

CD4mut

Catalog #:A1549

Antibody Type:

Polyclonal Antibody

Species:Rabbit

Gene ID:920

Isotype:IgG

Swiss Prot:P01730

Purity:Affinity purification

For research use only.

Background:

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 AntigenMajor Histocompatibility Complex (MHC). Specifically, the D1 domain of CD4 interacts with the 2-domain of the MHC class II molecule. CD4 ensures specificity of the TCRantigen 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).

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