

Polyclonal Antibody to Cluster Of Differentiation 4 (CD4)

Cluster Of Differentiation 4

Catalog # AP74758

Product Information

Application	WB
Primary Accession	P46630
Reactivity	Rabbit
Host	Guinea Pig
Clonality	Polyclonal
Calculated MW	50886

Additional Information

Gene ID	100009152
Other Names	CD4mut; p55; T-cell surface glycoprotein CD4; T-cell surface antigen T4/Leu-3
Target/Specificity	Oryctolagus cuniculus (Rabbit)
Dilution	WB~~Western blotting: 0.5-2 μ g/mL; Immunohistochemistry: 5-20 μ g/mL; Immunocytochemistry: 5-20 μ g/mL; Optimal working dilutions must be determined by end user.
Format	PBS, pH7.4, containing 0.02% NaN ₃ , 50% glycerol.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	CD4
Function	Integral membrane glycoprotein that plays an essential role in the immune response and serves multiple functions in responses against both external and internal offenses. In T-cells, functions primarily as a coreceptor for MHC class II molecule:peptide complex. The antigens presented by class II peptides are derived from extracellular proteins while class I peptides are derived from cytosolic proteins. Interacts simultaneously with the T-cell receptor (TCR) and the MHC class II presented by antigen presenting cells (APCs). In turn, recruits the Src kinase LCK to the vicinity of the TCR-CD3 complex. LCK then initiates different intracellular signaling pathways by phosphorylating various substrates ultimately leading to lymphokine production, motility, adhesion and activation of T-helper cells. In other cells such as macrophages or NK cells, plays a role in differentiation/activation, cytokine expression and cell migration in a TCR/LCK-independent pathway. Participates in the development of T- helper cells in the thymus and triggers

the differentiation of monocytes into functional mature macrophages.

Cellular Location

Cell membrane {ECO:0000250 | UniProtKB:P01730}; Single-pass type I membrane protein {ECO:0000250 | UniProtKB:P01730} Note=Localizes to lipid rafts. {ECO:0000250 | UniProtKB:P01730}

Images

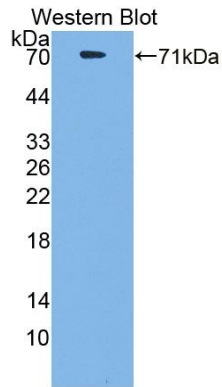


Figure. Western Blot; Sample: Recombinant CD4, Rabbit.

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