

Polyclonal Antibody to Cluster Of Differentiation 3d (CD3d)

Cluster Of Differentiation 3d

Catalog # AP74731

Product Information

Application	WB
Primary Accession	Q28072
Host	Rabbit
Clonality	Polyclonal
Calculated MW	18931

Additional Information

Gene ID	281053
Other Names	CD3-DELTA; T3D; T-Dell Surface Glycoprotein CD3 Delta Chain; T-cell receptor T3 delta chain
Target/Specificity	Bos taurus; Bovine (Cattle)
Dilution	WB~~Western blotting: 0.2-2 μ g/mL;1:250-2500 Immunohistochemistry: 5-20 μ g/mL;1:25-100 Immunocytochemistry: 5-20 μ g/mL;1:25-100 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	CD3D
Function	Part of the TCR-CD3 complex present on T-lymphocyte cell surface that plays an essential role in adaptive immune response. When antigen presenting cells (APCs) activate T-cell receptor (TCR), TCR- mediated signals are transmitted across the cell membrane by the CD3 chains CD3D, CD3E, CD3G and CD247/CD3Z. All CD3 chains contain immunoreceptor tyrosine-based activation motifs (ITAMs) in their cytoplasmic domain. Upon TCR engagement, these motifs become phosphorylated by Src family protein tyrosine kinases LCK and FYN, resulting in the activation of downstream signaling pathways. In addition of this role of signal transduction in T-cell activation, CD3D plays an essential role in thymocyte differentiation. Indeed, participates in correct intracellular TCR-CD3 complex assembly and surface expression. In absence

of a functional TCR-CD3 complex, thymocytes are unable to differentiate properly. Interacts with CD4 and CD8 and thus serves to establish a functional link between the TCR and coreceptors CD4 and CD8, which is needed for activation and positive selection of CD4 or CD8 T-cells.

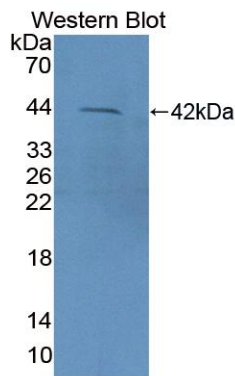
Cellular Location

Cell membrane {ECO:0000250 | UniProtKB:P04234}; Single-pass type I membrane protein {ECO:0000250 | UniProtKB:P04234}

Tissue Location

CD3D is mostly present on T-lymphocytes with its TCR-CD3 partners. Present also in fetal NK-cells {ECO:0000250 | UniProtKB:P04234}

Images



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