

CD3-δ Polyclonal Antibody

Catalog # AP68943

Specification

CD3-δ Polyclonal Antibody - Product Information

Application WB
Primary Accession P04234
Reactivity Human
Host Rabbit
Clonality Polyclonal

CD3-δ Polyclonal Antibody - Additional Information

Gene ID 915

Other Names

CD3D; T3D; T-cell surface glycoprotein CD3 delta chain; T-cell receptor T3 delta chain; CD antigen CD3d

Dilution

WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/20000. Not yet tested in other applications.

Format

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions

-20°C

CD3-δ Polyclonal Antibody - Protein Information

Name CD3D

Synonyms T3D

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 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 (PubMed:2470098). In addition of this role of signal transduction in T-cell activation, CD3D plays an essential role in thymocyte differentiation. Indeed, participates in correct

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 (PubMed:<a



Tel: 858.875.1900 Fax: 858.875.1999

href="http://www.uniprot.org/citations/12215456" target="_blank">12215456).

Cellular Location

Cell membrane; Single-pass type I membrane protein

Tissue Location

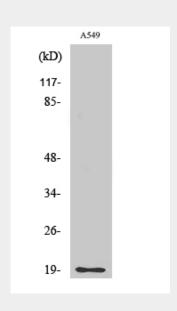
CD3D is mostly present on T-lymphocytes with its TCR-CD3 partners. Present also in fetal NK-cells

CD3-δ Polyclonal Antibody - Protocols

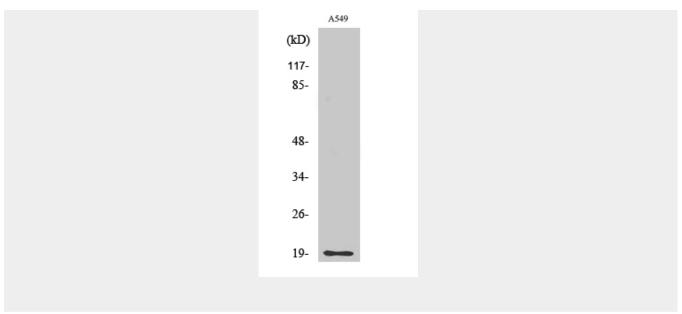
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- <u>Immunofluorescence</u>
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

CD3-δ Polyclonal Antibody - Images







CD3-δ Polyclonal Antibody - Background

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