

CD3-δ Polyclonal Antibody

Catalog # AP73641

#### Specification

## CD3-δ Polyclonal Antibody - Product Information

Application	WB
Primary Accession	<u>P04234</u>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Clonality	Polyclonal

## CD3-6 Polyclonal Antibody - Additional Information

Gene ID 915

**Other Names** CD3D; T3D; T-cell surface glycoprotein CD3 delta chain; T-cell receptor T3 delta chain; CD3d

Dilution WB~~Western Blot: 1/500 - 1/2000. IHC-p: 1/100-1/300. 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:<a href="http://www.uniprot.org/citations/2470098"

target="\_blank">2470098</a>). 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 (PubMed:<a



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

**Cellular Location** Cell membrane; Single-pass type I membrane protein

**Tissue Location** 

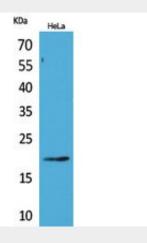
CD3D is mostly present on T-lymphocytes with its TCR-CD3 partners. Present also in fetal NK-cells

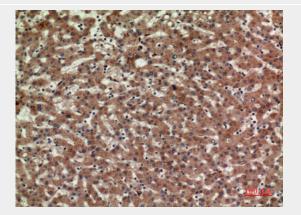
## CD3-δ Polyclonal Antibody - Protocols

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

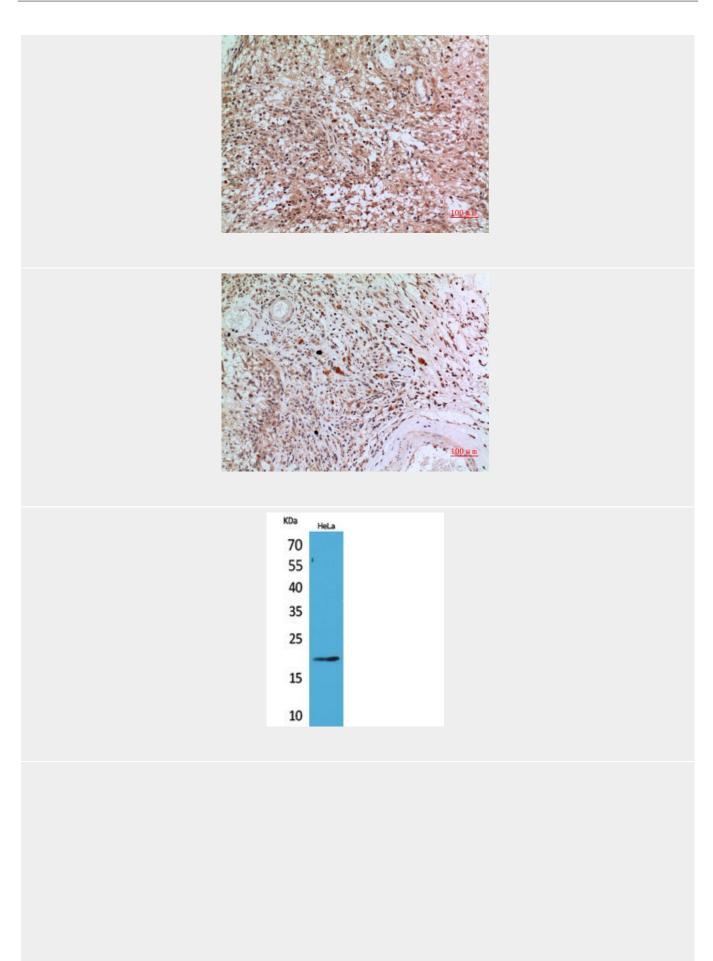
- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

## CD3-δ Polyclonal Antibody - Images

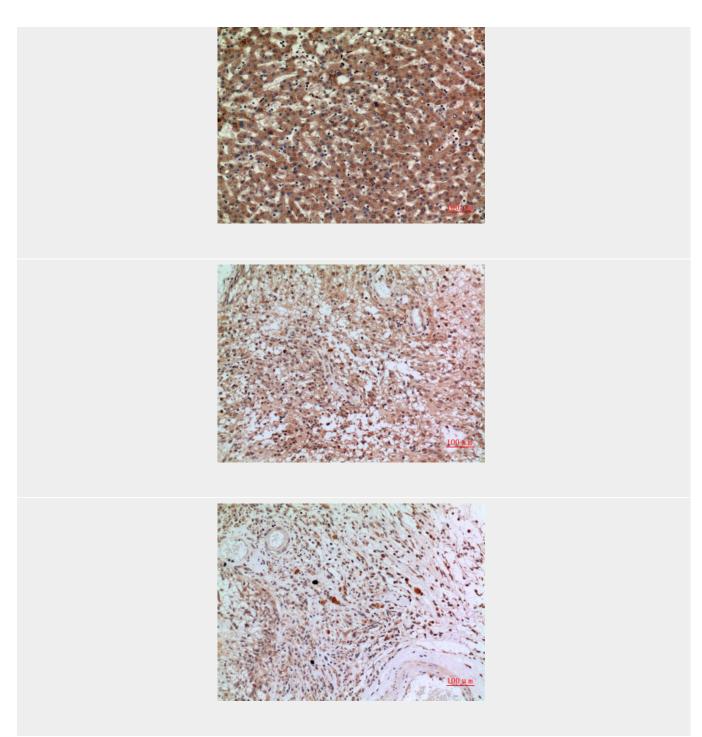












CD3-δ Polyclonal Antibody - Background

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