

**Anti-CD3 zeta CD247 Rabbit Monoclonal Antibody**  
Catalog # ABO13095

**Specification**

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**Anti-CD3 zeta CD247 Rabbit Monoclonal Antibody - Product Information**

Application	IF, ICC, FC
Primary Accession	<a href="#">P20963</a>
Host	Rabbit
Isotype	IgG
Reactivity	Human
Clonality	Monoclonal
Format	Liquid

**Description**

Anti-CD3 zeta CD247 Rabbit Monoclonal Antibody . Tested in ICC/IF, Flow Cytometry applications. This antibody reacts with Human.

**Anti-CD3 zeta CD247 Rabbit Monoclonal Antibody - Additional Information**

**Gene ID** 919

**Other Names**

T-cell surface glycoprotein CD3 zeta chain, T-cell receptor T3 zeta chain, CD247, CD247, CD3Z, T3Z, TCRZ

**Calculated MW**

18637 MW KDa

**Application Details**

ICC/IF 1:100-1:200<br>FC 1:20

**Subcellular Localization**

Membrane; Single-pass type I membrane protein.

**Protein Name**

T-cell surface glycoprotein CD3 zeta chain

**Contents**

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

**Immunogen**

A synthesized peptide derived from human CD3 zeta

**Purification**

Affinity-chromatography

**Storage**

**Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated**

freeze-thaw cycles.

## Anti-CD3 zeta CD247 Rabbit Monoclonal Antibody - Protein Information

**Name** CD247

**Synonyms** CD3Z, T3Z, TCRZ

### 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: [1384049](http://www.uniprot.org/citations/1384049), PubMed: [1385158](http://www.uniprot.org/citations/1385158), PubMed: [2470098](http://www.uniprot.org/citations/2470098), PubMed: [7509083](http://www.uniprot.org/citations/7509083)). CD3Z ITAMs phosphorylation creates multiple docking sites for the protein kinase ZAP70 leading to ZAP70 phosphorylation and its conversion into a catalytically active enzyme (PubMed: [7509083](http://www.uniprot.org/citations/7509083)). Plays an important role in intrathymic T-cell differentiation. Additionally, participates in the activity-dependent synapse formation of retinal ganglion cells (RGCs) in both the retina and dorsal lateral geniculate nucleus (dLGN) (By similarity).

### Cellular Location

Cell membrane {ECO:0000250|UniProtKB:P24161}; Single-pass type I membrane protein

### Tissue Location

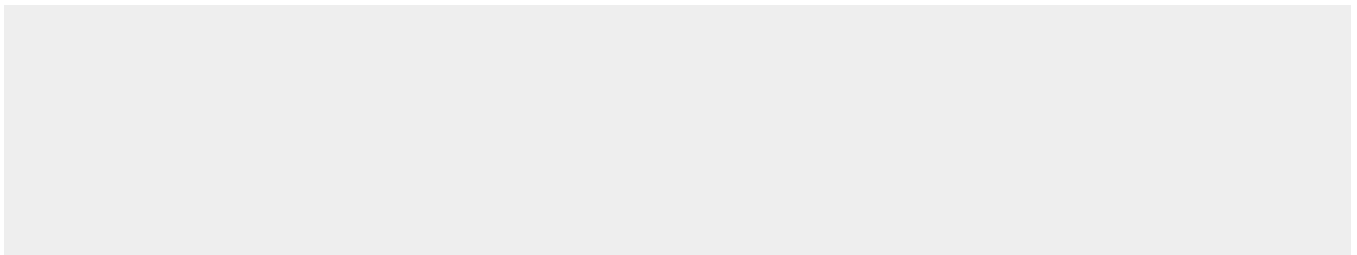
CD3Z is expressed in normal lymphoid tissue and in peripheral blood mononuclear cells (PBMCs) (PubMed:11722641)

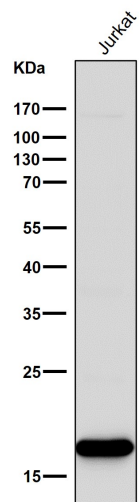
## Anti-CD3 zeta CD247 Rabbit Monoclonal Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## Anti-CD3 zeta CD247 Rabbit Monoclonal Antibody - Images





All lanes use the Antibody at 1:1K dilution for 1 hour at room temperature.