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Anti-CD247 Antibody
Rabbit polyclonal antibody to CD247
Catalog # AP60239

Specification

Anti-CD247 Antibody - Product Information

Application	**WB**
Primary Accession	P20963
Other Accession	P24161
Reactivity	**Human, Mouse, Rat, Rabbit, Monkey, Pig**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**18696**

Anti-CD247 Antibody - Additional Information

Gene ID 919

Other Names
CD3Z; T3Z; TCRZ; T-cell surface glycoprotein CD3 zeta chain; T-cell receptor T3 zeta chain; CD247

Target/Specificity
Recognizes endogenous levels of CD247 protein.

Dilution
WB~~WB (1/500 - 1/1000)

Format
Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage
Store at -20 °C.Stable for 12 months from date of receipt

Anti-CD247 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:<a href="http://www.uniprot.org/citations/1384049"

target="_blank">1384049, PubMed:1385158, PubMed:2470098, PubMed: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). 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

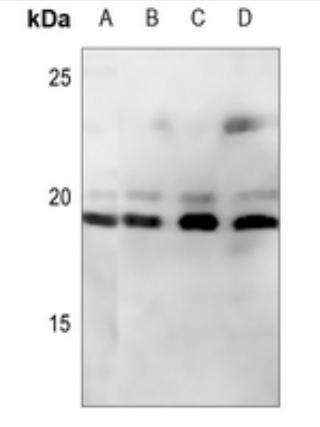
Tissue Location
CD3Z is expressed in normal lymphoid tissue and in peripheral blood mononuclear cells (PBMCs) (PubMed:11722641)

Anti-CD247 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 Cytomety
- Cell Culture

Anti-CD247 Antibody - Images



Western blot analysis of CD247 expression in H1792 (A), mouse spleen (B), rat liver (C), rat spleen (D) whole cell lysates.

Anti-CD247 Antibody - Background

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human CD247. The exact sequence is proprietary.