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## Datasheet for ABIN7317295 CD247 Protein (GST tag)

### Overview

Quantity:	100 µg
Target:	CD247
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CD247 protein is labelled with GST tag.

### Product Details

Purpose:	Recombinant Human CD247/CD3-ZETA Protein (GST Tag)
Sequence:	Arg52-Arg164
Characteristics:	A DNA sequence encoding the mature form of human CD247 (P20963-1) (Arg52-Arg164) was fused with the GST tag at the N-terminus.
Purity:	> 92 % as determined by reducing SDS-PAGE.

### Target Details

Target:	CD247
Alternative Name:	CD247/CD3-ZETA ( <a href="#">CD247 Products</a> )
Background:	Background: CD247, also known as CD3-ZETA, belongs to the CD3Z/FCER1G family. It contains 3 ITAM domains. As a -cell receptor zeta, CD247 forms the T-cell receptor-CD3 complex together with T-cell receptor alpha/beta and gamma/delta heterodimers, and with CD3-gamma, -delta and -epsilon. The zeta chain plays an important role in coupling antigen recognition to

## Target Details

several intracellular signal-transduction pathways. Low expression of the antigen results in impaired immune response. Two alternatively spliced transcript variants encoding distinct isoforms have been found for CD247 gene. Defects in CD247 can cause immunodeficiency due to defect in CD3-zeta. An immunological deficiency characterized by T-cells impaired immune response to alloantigens, tetanus toxoid and mitogens. CD247 may play a role in assembly and expression of the TCR complex as well as signal transduction upon antigen triggering.

Synonym: CD3-ZETA;CD3H;CD3Q;CD3Z;IMD25;T3Z;TCRZ

Molecular Weight: 40.2 kDa

Pathways: [TCR Signaling](#), [CXCR4-mediated Signaling Events](#), [Ubiquitin Proteasome Pathway](#)

## Application Details

Restrictions: For Research Use only

## Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from sterile PBS, pH 7.4

Storage: 4 °C, -20 °C, -80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.