

Recombinant Mouse Cd247 Protein, His-tagged

Cat. No. Cd247-665M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Cd247 Protein (Met1-His157) with His tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	Met1-His157
Description	<p>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. CD3Z ITAMs phosphorylation creates multiple docking sites for the protein kinase ZAP70 leading to ZAP70 phosphorylation and its conversion into a catalytically active enzyme. 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).</p>
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 19.4 kDa

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Purity	> 95%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in PBS or others.

GENE INFORMATION

Gene Name	Cd247 CD247 antigen [<i>Mus musculus</i> (house mouse)]
Official Symbol	Cd247
Synonyms	CD247; CD247 antigen; CD3-zeta/eta; T-cell receptor T3 eta chain; CD3 antigen, zeta polypeptide; T-cell surface glycoprotein CD3 zeta chain; Cd3; T3z; Cd3h; Cd3z; Tcrk; Tcrz; Cd3-eta; Cd3zeta; AW552088; Cd3-zeta; 4930549J05Rik; A430104F18Rik;
Gene ID	12503
mRNA Refseq	NM_001113391

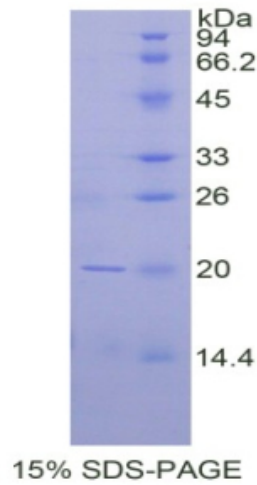
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Protein Refseq NP_001106862

UniProt ID P24161



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