

Recombinant Human CD247

Cat. No. CD247-27869TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length protein of Human CD3 zeta with proprietary tag; Predicted MWt 43.76 kDa inclusive of tag.
Species	Human
Source	Wheat Germ
ProteinLength	164 amino acids
Description	The protein encoded by this gene is T-cell receptor zeta, which together with T-cell receptor alpha/beta and gamma/delta heterodimers, and with CD3-gamma, -delta and -epsilon, forms the T-cell receptor-CD3 complex. The zeta chain plays an important role in coupling antigen recognition to 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 this gene.
Molecular Weight	43.760kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.79% Tris HCl, 0.31% Glutathione

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Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MKWKALFTAAILQAQLPITEAQSFGLLDPKLCYLLDGILFIYGVILTALFLRVKFSRSAD APAYQQGQNQLYNELNLGRREEYDVLDKRRGRDPEMGGKPQRRKNPQEGLYNEL QKDKMAEAYSEIGMKGERRRRGKGHDGLYQGLSTATKDTYDALHMQALPPR
Sequence Similarities	Belongs to the CD3Z/FCER1G family.Contains 3 ITAM domains.
GENE INFORMATION	
Gene Name	CD247 CD247 molecule [Homo sapiens]
Official Symbol	CD247
Synonyms	CD247; CD247 molecule; CD3Z, CD3z antigen, zeta polypeptide (TiT3 complex) , CD247 antigen; T-cell surface glycoprotein CD3 zeta chain; CD3H; CD3Q;
Gene ID	919
mRNA Refseq	NM_000734
Protein Refseq	NP_000725
MIM	186780
Uniprot ID	P20963
Chromosome Location	1q22-q25

Pathway

Adaptive Immune System, organism-specific biosystem; CXCR4-mediated signaling events, organism-specific biosystem; Chagas disease (American trypanosomiasis), organism-specific biosystem; Chagas disease (American trypanosomiasis), conserved biosystem; Costimulation by the CD28 family, organism-specific biosystem;

Function

identical protein binding; protein binding; protein homodimerization activity; receptor activity; transmembrane signaling receptor activity;

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