

Recombinant Dog CD3D Protein, His-tagged

Cat. No. CD3D-673D Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Dog CD3D Protein (Phe45-Lys194) with His tag was expressed in E. coli.
Species	Dog
Source	E.coli
ProteinLength	Phe45-Lys194
Description	The protein encoded by this gene is part of the T-cell receptor/CD3 complex (TCR/CD 3 complex) and is involved in T-cell development and signal transduction. The encoded membrane protein represents the delta subunit of the CD3 complex, and along with four other CD3 subunits, binds either TCR alpha/beta or TCR gamma/delta to form the TCR/CD3 complex on the surface of T-cells. Defects in this gene are a cause of severe combined immunodeficiency autosomal recessive T-cell-negative/B-cell-positive/NK-cell-positive (SCIDBNK). Two transcript variants encoding different isoforms have been found for this gene. Other variants may also exist, but the full-length nature of their transcripts has yet to be defined.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 20.7 kDa; Accurate Molecular Mass: 21 kDa
Purity	> 80%

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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	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	CD3D CD3d molecule, delta (CD3-TCR complex) [<i>Canis lupus familiaris</i>]
Official Symbol	CD3D
Synonyms	CD3D; CD3d molecule, delta (CD3-TCR complex); T-cell surface glycoprotein CD3 delta chain;
Gene ID	479419
mRNA Refseq	XM_038664255
Protein Refseq	XP_038520183

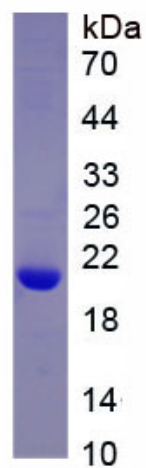
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UniProt ID

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