

Recombinant Human CD53 Protein, His&GST-tagged

Cat. No. CD53-503H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human CD53 Protein (Glu107-Leu219) with N-His&GST tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Glu107-Leu219
Description	The protein encoded by this gene is a member of the transmembrane 4 superfamily, also known as the tetraspanin family. Most of these members are cell-surface proteins that are characterized by the presence of four hydrophobic domains. The proteins mediate signal transduction events that play a role in the regulation of cell development, activation, growth and motility. This encoded protein is a cell surface glycoprotein that is known to complex with integrins. It contributes to the transduction of CD2-generated signals in T cells and natural killer cells and has been suggested to play a role in growth regulation. Familial deficiency of this gene has been linked to an immunodeficiency associated with recurrent infectious diseases caused by bacteria, fungi and viruses. Alternative splicing results in multiple transcript variants.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 42.5 kDa Accurate Molecular Mass: 43 kDa

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Purity	> 80%
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 sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	CD53 CD53 molecule [Homo sapiens (human)]
Official Symbol	CD53
Synonyms	CD53; CD53 molecule; MOX44; TSPAN25; leukocyte surface antigen CD53; CD53 antigen; CD53 glycoprotein; CD53 tetraspan antigen; antigen MOX44 identified by monoclonal antibody MRC-OX44; cell surface antigen; cell surface glycoprotein CD53; tetraspanin-25; transmembrane glycoprotein; tspan-25
Gene ID	963
mRNA Refseq	NM_000560

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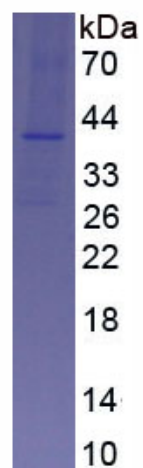
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Protein Refseq NP_000551

MIM 151525

UniProt ID P19397



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