

Recombinant Human CD99 protein, Fc-tagged

Cat. No. CD99-473H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human CD99 (Asp23-Asp122) protein was fused to human IgG1 Fc tag at C-terminus and expressed in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	Asp23-Asp122
Description	CD99 antigen is also known as MIC2, single-chain type-1 glycoprotein, HBA71, MIC2X, MIC2Y, MSK5X, 12E7, which belongs to the CD99 family. CD99/MIC2 is expressed on all leukocytes but highest on thymocytes. Involved in T-cell adhesion processes and in spontaneous rosette formation with erythrocytes. CD99/MIC2 plays a role in a late step of leukocyte extravasation helping leukocytes to overcome the endothelial basement membrane. CD99 acts at the same site as, but independently of PECAM1. There is also experimental evidence that it binds to cyclophilin A.
Predicted N Terminal	Asp23
Form	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 36.2 kDa. The protein migrates as 45-50 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU per µg by the LAL method.

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Purity	>90% as determined by SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.
GENE INFORMATION	
Gene Name	CD99
Official Symbol	CD99
Synonyms	CD99; CD99 molecule; antigen identified by monoclonal antibodies 12E7, F21 and O13 , CD99 antigen , MIC2; CD99 antigen; E2 antigen; surface antigen MIC2; T-cell surface glycoprotein E2; MIC2 (monoclonal 12E7); antigen identified by monoclonal 12E7, Y homolog; antigen identified by monoclonal antibodies 12E7, F21 and O13; MIC2; HBA71; MIC2X; MIC2Y; MSK5X
Gene ID	4267
mRNA Refseq	NM_001122898
Protein Refseq	NP_001116370
MIM	313470

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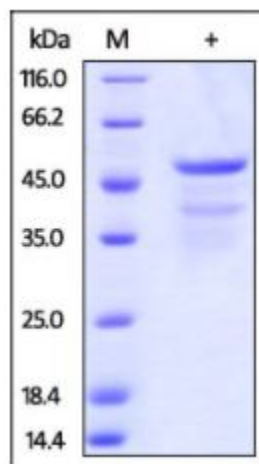
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UniProt ID

P14209

SDS-PAGE of CD99-
473H



Human CD99, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

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