

Product datasheet for **TP727929**

CD99 Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Human CD99/MIC2 (C-Fc)
Species:	Human
Expression cDNA Clone or AA Sequence:	Asp23-Asp122
Tag:	C-Fc
Buffer:	Lyophilized from a 0.2 um filtered solution of PBS, pH 7.4.
Note:	Recombinant Human CD99 is produced by our Mammalian expression system and the target gene encoding Asp23-Asp122 is expressed with a Fc tag at the C-terminus.
Stability:	12 months from date of despatch
Locus ID:	4267
UniProt ID:	P14209
Summary:	CD99 is a type I transmembrane glycoprotein and the founding member of the CD99 family of molecules. The extracellular domain of CD99 contains no identifiable motifs, its cytoplasmic region, although short, does have signal transduction capability. Cells known to express CD99 include fibroblasts, neutrophils, T cells, double positive thymocytes, CD34+ stem cells, monocytes and endothelial cells. Two types of CD99 isoforms have been classified. Native human CD99 is referred to as the long, or type I isoform. The best studied type II isoform shows an Asp-Gly substitution for the C terminal 27 amino acids. The type I and II isoforms have distinctive signal transduction pathways (FAKsrc for type I PI3K plus srcERK1/2 for type II), and mediate clearly different biological outcomes. Homophilic interaction between CD99 on the neutrophil and CD99 on the endothelial cell regulates the transendothelial migration of neutrophils during inflammation. Human CD99 has 48% aa sequence identity to mouse CD99.



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