

CD98 Protein, Human, Recombinant (mFc)

General Information

Synonyms:	Lymphocyte activation antigen 4F2 large subunit;4F2 cell-surface antigen heavy chain;CD98;MDU1;SLC3A2;4F2hc;Solute carrier family 3 member 2
Protein Construction:	Arg206-Ala630
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P08195
Molecular Weight:	70-100 KDa (reducing condition)
AA Sequence:	Arg206-Ala630

QC Testing

Biological Activity:	1. Loaded Anti-Human CD98 mAb-Fc on AHC Biosensor, can bind Human CD98-mFc with an affinity constant of $<10^{-3}>$ nM as determined in BLI assay. (Regularly tested) 2. Immobilized Human CD98-mFc at 2 μ g/ml (100 μ l/well) can bind Anti-Human CD98 mAb . The ED50 of Anti-Human CD98 mAb is 1.34 ng/ml. (Regularly tested)
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/ μ g (1 EU/ μ g) as determined by LAL test.
Formulation:	Supplied as a 0.2 μ m filtered solution of PBS, 10% Glycerol, pH7.4.

Preparation and Storage

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein Background

CD98 is a multifunctional glycoprotein that is involved in various biological processes such as amino acid transport, cell adhesion, diffusion, adhesion, and proliferation. CD98 can interact with CD147 to induce integrin 1 function to promote cyclosporine B-induced cell adhesion and p44/p42 MAPK activation following PI3K activation. CD98 heavy chain has been studied to be a key player in tumorigenesis due to its role in activating integrin signaling to promote tumor progression via angiogenesis, invasiveness, and proliferation in addition to promoting malignant transformation of cells. Fibrotic progression in the liver could be linked to the activation of integrin $\alpha\beta$ 1 via CD98. CD98's role in T cell activation in which the TGF activation could also play a profibrotic role.

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