**DESCRIPTION**

**Species Reactivity**  
Human

**Specificity**  
Detects human CD98 in direct ELISAs.

**Source**  
Monoclonal Mouse IgG$_{2A}$ Clone # 590559

**Purification**  
Protein A or G purified from hybridoma culture supernatant

**Immunogen**  
Chinese hamster ovary cell line CHO-derived recombinant human CD98  
Asp105-Gln529  
Accession # P08195

**Conjugate**  
Phycoerythrin

**Excitation Wavelength:** 488 nm  
**Emission Wavelength:** 565-605 nm

**Formulation**  
Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.

*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.*

**APPLICATIONS**

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

<table>
<thead>
<tr>
<th><strong>Recommended Concentration</strong></th>
<th><strong>Sample</strong></th>
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<tr>
<td>Flow Cytometry</td>
<td>10 µL/10^6 cells</td>
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**DATA**

**Flow Cytometry**

Detection of CD98 in K562 Human Cell Line by Flow Cytometry. K562 human chronic myelogenous leukemia cell line was stained with Mouse Anti-Human CD98 PE-conjugated Monoclonal Antibody (Catalog # FAB5920P, filled histogram) or isotype control antibody (Catalog # IC003P, open histogram). View our protocol for Staining Membrane-associated Proteins.

**PREPARATION AND STORAGE**

**Shipping**  
The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

**Stability & Storage**  
Protect from light. Do not freeze.  
- 12 months from date of receipt, 2 to 8 °C as supplied.

**BACKGROUND**

CD98, also known as 4F2hc, is a ubiquitously expressed, 85-95 kDa member of the SLC3 (solute carrier 3) family of amino acid transporters. It is a type II transmembrane glycoprotein that covalently associates with a variable number of small, 38-45 kDa, 12-transmembrane proteins that belong to the SLC7 family of molecules. The 120-130 kDa heterodimeric 4F2 complex is known to transport neutral or cationic amino acids with, or without, a contribution of sodium. It also interacts with Integrin β1 and β3 to promote cell polarization and migration. Notably, CD98 is “vertebrate-restricted,” and its appearance evolutionarily has been linked to the onset of tumorigenesis. Over amino acids (aa) 105-529, human and mouse CD98 share 76% aa sequence identity.