

DESCRIPTION

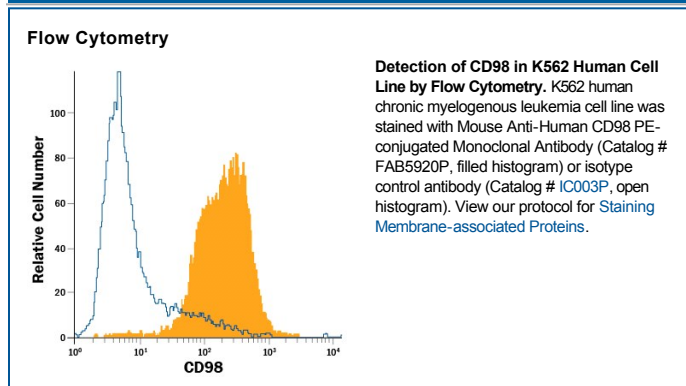
| | |
|---------------------------|--|
| Species Reactivity | Human |
| Specificity | Detects human CD98 in direct ELISAs. |
| Source | Monoclonal Mouse IgG _{2A} Clone # 590559 |
| Purification | Protein A or G purified from hybridoma culture supernatant |
| Immunogen | Chinese hamster ovary cell line 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.

| | Recommended Concentration | Sample |
|-----------------------|----------------------------------|-----------|
| Flow Cytometry | 10 μ L/10 ⁶ cells | See Below |

DATA



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. <ul style="list-style-type: none"> 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 β 1 and β 3 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.