

## Product datasheet

### anti-CD98 mouse monoclonal, IPO-T10, purified

#### Short overview

<b>Cat. No.</b>	691610
<b>Quantity</b>	1 ml (100 µg/ml)
<b>Concentration</b>	100 µg/ml

#### Product description

<b>Host</b>	Mouse
<b>Antibody Type</b>	Monoclonal
<b>Isotype</b>	IgM kappa
<b>Clone</b>	IPO-T10
<b>Immunogen</b>	Stimulated human PBL
<b>Formulation</b>	PBS with 0.02% sodium azide
<b>UniprotID</b>	P08195 (Human)
<b>Synonym</b>	4F2 cell-surface antigen heavy chain, 4F2hc, 4F2 heavy chain antigen, Lymphocyte activation antigen 4F2 large subunit, Solute carrier family 3 member 2, CD antigen CD98, SLC3A2, MDU1
<b>Conjugate</b>	Unconjugated
<b>Purification</b>	Affinity chromatography
<b>Storage</b>	2-8°C
<b>Intended use</b>	Research use only
<b>Application</b>	FACS, IHC
<b>Reactivity</b>	Human

#### Applications

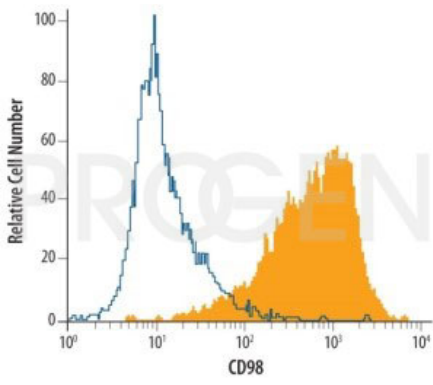
<b>Flow Cytometry (FACS)</b>	0.5-1.0 µg/million cells in 0.1 ml
<b>Immunohistochemistry (IHC) - frozen</b>	1:50-1:100 (1-2 µg/ml)

#### Background

CD98 exists as a heterodimer containing a disulphide-linked glycosylated heavy chain and a non-glycosylated light chain. It is a member of the solute carrier family and encodes a cell surface, transmembrane protein. The protein exists as the heavy chain of a heterodimer, covalently bound through disulphide bonds to one of several possible light chains. The encoded transporter plays a role in regulation of intercellular calcium levels and transport L-type amino acids. Alternatively spliced transcript variants, encoding different isoforms, have been characterized. Monocytes express high levels of CD98 antigen. Peripheral blood T- and B-cells, as well as NK-cells and granulocytes express low levels of CD98. Activation of T-cells and NK-cells leads to upregulation of CD98. RBCs are negative. IPO-T10 was typed at the Vith International Workshop and Conference on Human Leukocyte Differentiation Antigens.

Positive control: Jurkat, MG63, HUT-78, K562, YT, U937 and human lymphocytes or tonsils.

## Product images



FACS with K562 cells