Product datasheet

anti-CD98 mouse monoclonal, IPO-T10, purified

Short overview

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

Product description

Host	Mouse
Antibody Type	Monoclonal
Isotype	IgM kappa
Clone	IPO-T10
Immunogen	Stimulated human PBL
Formulation	PBS with 0.02% sodium azide
UniprotID	P08195 (Human)
Synomym	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
Conjugate	Unconjugated
Purification	Affinity chromatography
Storage	2-8°C
Intended use	Research use only
Application	FACS, IHC
Reactivity	Human

Applications

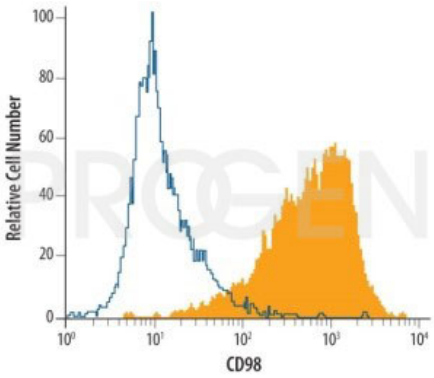
Flow Cytometry (FACS)	0.5-1.0 µg/million cells in 0.1 ml
Immunohistochemistry (IHC) - frozen	1:50-1:100 (1-2 µg/ml)

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