9853 Pacific Heights Blvd.
Suite D. San Diego,
CA 92121, USA
Tel: 858-263-4982
Email: info@abeomics.com

10-4168-F: Monoclonal Antibody to Human CD98 FITC Conjugated (Clone: ABM5A27)

Clonality :	Monoclonal
Clone Name :	ABM5A27
Application :	FACS
Reactivity :	Human
Conjugate :	FITC
Gene :	SLC3A2
Gene ID :	6520
Uniprot ID :	P08195
Format :	Purified
Alternative Name :	4F2 cell-surface antigen heavy chain, 4F2 heavy chain antigen, Lymphocyte activation antigen 4F2 large subunit, Solute carrier family 3 member 2
Isotype :	Mouse IgG1, kappa
Immunogen Information :	A partial length recombinant protein (a.a 162-371) of hCD98 was used as the immunogen for this antibody.

Description

CD98 was originally identified as a cell surface antigen associated with lymphocyte activation defined by 4F2 mAb; it is expressed in proliferating normal tissues and in almost all tumor cells. CD98 heterodimer consists of a type II single-pass transmembrane heavy chain (CD98hc, also known as 4F2 antigen heavy chain or FRP-1; encoded by the genes SLC3A2 and Slc3a2 for human and mouse, respectively) of ~80–85 kDa that is disulfide-linked with a multi-pass light chain of ~40 kDa. CD98 hc (heavy chain) is a type II transmembrane glycoprotein that is disulfide-linked to a non-glycosylated light chain of a member of the permease family. It has been reported that CD98 was functionally involved in lymphocyte activation, cell proliferation, and malignant transformation. CD98 forms the large neutral amino acid transporter that is a heterodimeric membrane transport protein to transport branched-chain (valine, leucine, isoleucine) and aromatic (tryptophan, tyrosine) amino acids. Intestinal epithelial cells express CD98 under the physiological conditions. Recent reports indicate that CD98 is involved in the intestinal inflammation, which can be upregulated by interferon (IFN)-gamma in the intestine.

Product Info

Amount :	25 µg / 100 µg
Purification :	Protein G Chromatography
Content :	0.2 mg/ml in Tris buffer containing 0.05% Azide
Storage condition :	Store the antibody at 4°C, stable for 6 months.

Application Note

FACS: 0.5-1 µg/10^6 cells

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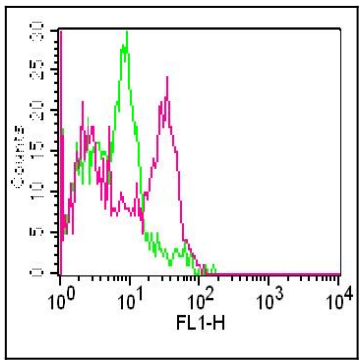


Fig-1: Cell surface flow analysis of FITC conjugated hCD98 on human PBMCs using 0.5 µg/ 10^6 cells of FITC conjugated hCD98 (Clone: ABM5A27). Green represents isotype control; red represents anti-hCD98 FITC conjugated antibody.

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