

Datasheet for ABIN94256
anti-SLC3A2 antibody (Biotin)

3 Images

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Overview

Quantity:	0.1 mg
Target:	SLC3A2
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This SLC3A2 antibody is conjugated to Biotin
Application:	Flow Cytometry (FACS), Immunoprecipitation (IP), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	RAJI human Burkitt's lymphoma cell line
Clone:	MEM-108
Isotype:	IgG1
Specificity:	The antibody MEM-108 reacts with an extracellular epitope of CD98, a 125 kDa disulfide-linked heterodimer (80 kDa glycosylated heavy chain + 45 kDa non-glycosylated light chain). CD98 is expressed on T lymphocytes (upon activation) and activated NK cells, it is also present at low levels on B lymphocytes, NK cells, monocytes and platelets.
Cross-Reactivity (Details):	Human
Purification:	Purified antibody is conjugated with biotin LC-NHS ester under optimum conditions and unconjugated antibody and free biotin are removed by size-exclusion chromatography.

Target Details

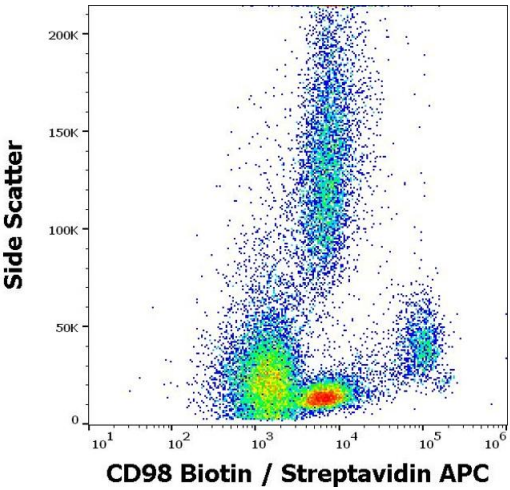
Target:	SLC3A2
Alternative Name:	CD98 (SLC3A2 Products)
Background:	Solute carrier family 7 member 5,CD98 (4F2) is a type II transmembrane glycoprotein which serves as the heavy chain of the heterodimeric amino acid transporters (HATs). CD98, linked to various light chains by disulfide bond, is responsible for cell surface expression and basolateral localization of this transporter complex in polarized epithelial cells and also interacts with beta1 integrins and increases their affinity for ligand. Besides its roles in amino acid transport, CD98 is thus involved in cell fusion and activation. It is implicated in regulation of cellular differentiation, growth and apoptosis.,4F2, MDU1, 4F2HC, 4T2HC, NACAE, SLC3A2
Gene ID:	8140
UniProt:	Q01650

Application Details

Application Notes:	Flow cytometry: Recommended dilution: 3 µg/mL.
Comment:	The purified antibody is conjugated with Biotin-LC-NHS under optimum conditions. The reagent is free of unconjugated biotin.
Restrictions:	For Research Use only

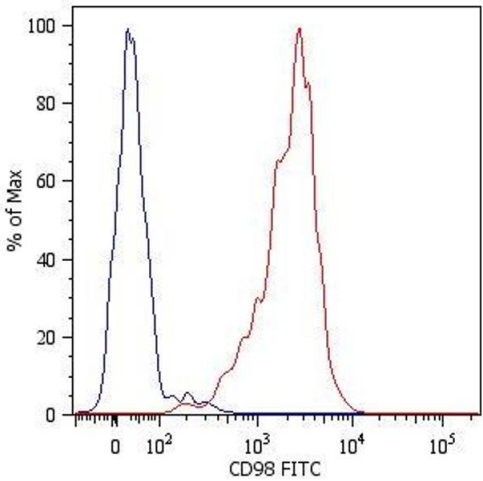
Handling

Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Do not freeze. Avoid prolonged exposure to light.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.



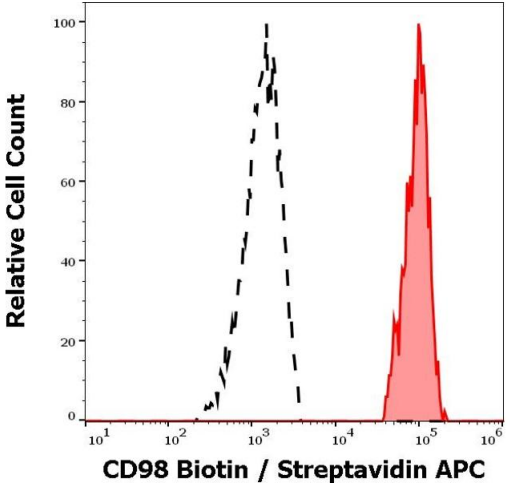
Flow Cytometry

Image 1. Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD98 (MEM-108) Biotin antibody (concentration in sample 2 µg/mL, Streptavidin APC).



Flow Cytometry

Image 2. Surface staining of human peripheral blood cells with anti-human CD98 (MEM-108) FITC. Cells in the monocyte gate were used for analysis.



Flow Cytometry

Image 3. Separation of human monocytes (red-filled) from CD98 negative blood debris (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood using anti-human CD98 (MEM-108) Biotin antibody (concentration in sample 2 µg/mL, Streptavidin APC).