

Datasheet for ABIN94257  
**anti-SLC3A2 antibody (FITC)**

3 Images



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## Overview

Quantity:	100 tests
Target:	SLC3A2
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This SLC3A2 antibody is conjugated to FITC
Application:	Flow Cytometry (FACS)

## 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 fluorescein isothiocyanate (FITC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

## Target Details

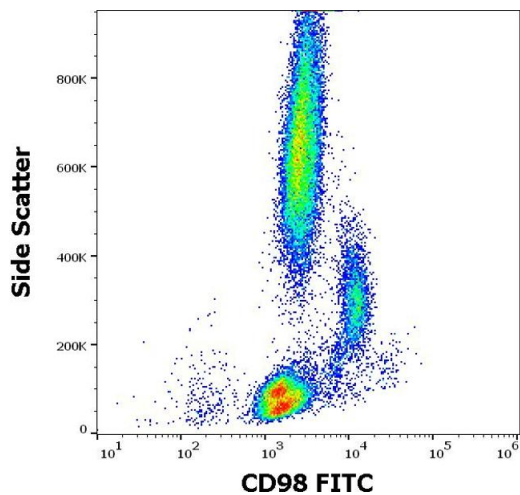
Target:	SLC3A2
Alternative Name:	CD98 ( <a href="#">SLC3A2 Products</a> )
Background:	Solute carrier family 7 member 5,CD98 (4F2) is a type II transmembrane glycoprotein which serves as the heavy chain of the heterodimeric amino acid transporters (HATs). CD98, linked to various light chains by disulfide 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:	<a href="#">Q01650</a>

## Application Details

Application Notes:	Flow cytometry: The reagent is designed for analysis of human blood cells using 20 µL reagent / 100 µL of whole blood or 10 <sup>6</sup> cells in a suspension. The content of a vial (2 ml) is sufficient for 100 tests.
Comment:	The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC and adjusted for direct use. No reconstitution is necessary.
Restrictions:	For Research Use only

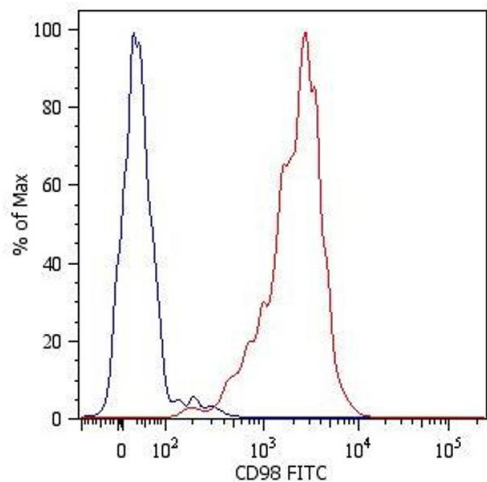
## Handling

Reconstitution:	No reconstitution is necessary.
Buffer:	Stabilizing 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:	<b>Do not freeze.</b> Avoid prolonged exposure to light.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.



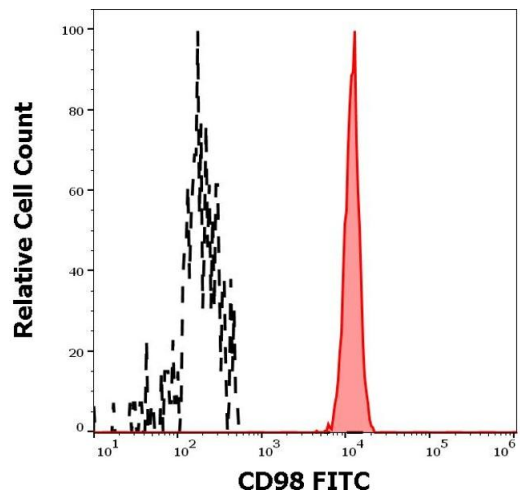
Flow Cytometry

**Image 1.** Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD98 (MEM-108) FITC antibody (20  $\mu$ L reagent / 100  $\mu$ L of peripheral whole blood).



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 blood debris (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD98 (MEM-108) FITC antibody (20  $\mu$ L reagent / 100  $\mu$ L of peripheral whole blood).