

## PE anti-human CD98 Recombinant Antibody

<b>Catalog# / Size</b>	335511 / 25 tests 335512 / 100 tests
<b>Clone</b>	2B6/CD98.Rec
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	4F2, FRP-1, RL-388
<b>Isotype</b>	Mouse IgG1, $\kappa$
<b>Description</b>	CD98, also known as 4F2 and FRP-1, is a 125 kD disulfide-linked heterodimer protein. It is broadly expressed on activated and transformed cells (hematopoietic and non-hematopoietic), and at low levels on quiescent cells. CD98 has been characterized as a potential amino acid transporter (neutral and dibasic amino acids) that is involved in lymphocyte activation and integrin signaling. CD98 is composed of a light chain (45 kD) and a heavy chain (80 kD). Studies with knock-out mice indicate that the CD98 heavy chain is involved in integrin-dependent cell spreading and protection against anchorage deprivation-induced apoptosis.

### Product Details

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<b>Verified Reactivity</b>	Human
<b>Antibody Type</b>	Recombinant
<b>Host Species</b>	Mouse
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
<b>Preparation</b>	The antibody was purified by affinity chromatography and conjugated with PE under optimal conditions.
<b>Concentration</b>	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our <a href="#">Certificate of Analysis</a> online tool.)
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">FC - Quality tested</a>
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</a> . For flow cytometric staining, the suggested use of this reagent is 5 $\mu$ L per million cells in 100 $\mu$ L staining volume or 5 $\mu$ L per 100 $\mu$ L of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
<b>Excitation Laser</b>	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
<b>RRID</b>	AB_3675055 (BioLegend Cat. No. 335511) AB_3675055 (BioLegend Cat. No. 335512)

### Antigen Details

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<b>Structure</b>	Disulfide-linked heterodimer, 80 kD and 45 kD reduced, 125 kD unreduced
<b>Distribution</b>	Broadly expressed on activated and transformed cells, not hematopoietic cell-specific. Lower levels on resting cells.
<b>Function</b>	Potential amino acid transporter (neutral and dibasic amino acids) also involved in the activation of lymphocytes and integrin signaling. May be a target antigen for NK cells.
<b>Interaction</b>	Actin, $\beta$ 1 integrins ( $\alpha$ 2 $\beta$ 1, $\alpha$ 3 $\beta$ 1, $\alpha$ 5 $\beta$ 1, $\alpha$ 6 $\beta$ 1; minimally with $\alpha$ 4 $\beta$ 1)
<b>Biology Area</b>	Immunology

**Molecular Family**

CD Molecules

**Antigen References**

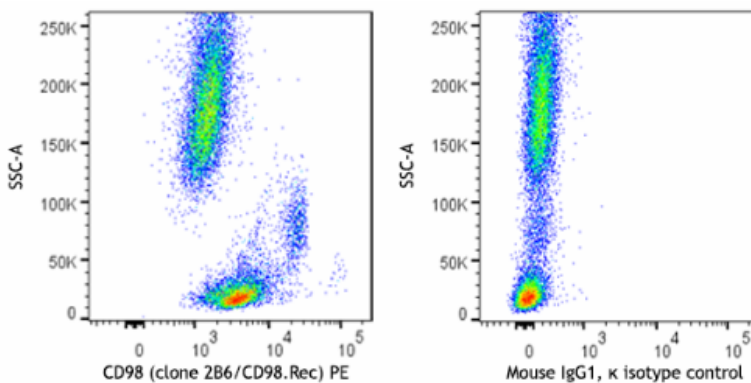
1. Leukocyte Typing VI. Kishimoto T, *et al.* (Eds.) Garland Publishing Inc. (1997)
2. Bron C, *et al.* 1986. *J. Immunol.* 137:397.
3. Lumadue JA, *et al.* 1987. *Proc. Natl. Acad. Sci.* 84:9204.
4. Mastroberardino L, *et al.* 1998. *Nature* 395:288.

**Gene ID**[6520](#)**Related Protocols**

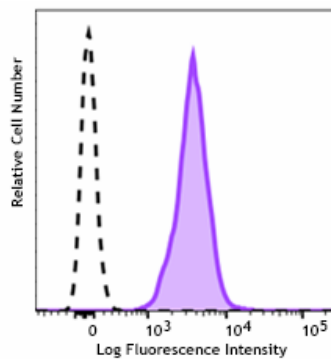
- [Cell Surface Flow Cytometry Staining Protocol](#)

**Other Formats**

Purified anti-human CD98 Recombinant Antibody, PE anti-human CD98 Recombinant Antibody

**Product Data**

Human peripheral blood cells were stained with anti-human CD98 recombinant (clone 2B6/CD98.Rec) PE (left) or mouse IgG1, κ PE isotype control (right).



Human peripheral blood lymphocytes were stained with anti-human CD98 recombinant (clone 2B6/CD98.Rec) PE (filled histogram) or mouse IgG1, κ PE isotype control (open histogram).

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