

**PerCP/Cyanine5.5 anti-human CD298**

**Catalog # / Size:** 2308550 / 100 tests  
2308545 / 25 tests

**Clone:** LNH-94

**Isotype:** Mouse IgG1, κ

**Immunogen:** CX3CR1-EGFP fusion protein

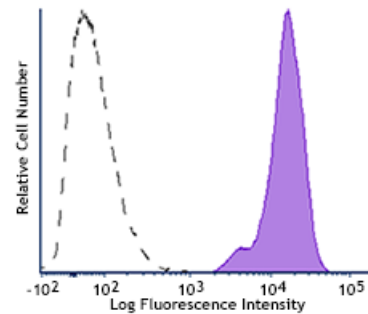
**Reactivity:** Human, Non-human primate, Other

**Preparation:** The antibody was purified by affinity chromatography and conjugated with PerCP/Cyanine5.5 under optimal conditions. The solution is free of unconjugated PerCP/Cyanine5.5 and unconjugated antibody.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

**Workshop Number:** VIII 80652

**Concentration:** Lot-specific



Human peripheral blood lymphocytes were stained with CD298 (clone LNH-94) PerCP/Cyanine5.5 (filled histogram) or mouse IgG1, κ PerCP/Cyanine5.5 isotype control (open histogram).

**Applications:**

**Applications:** Flow Cytometry

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 µl per million cells in 100 µl staining volume or 5 µl per 100 µl of whole blood.

\* PerCP/Cyanine5.5 has a maximum absorption of 482 nm and a maximum emission of 690 nm.

**Application Notes:** Additional reported applications (for the relevant formats) include: immunoprecipitation<sup>1</sup>, and immunohistochemistry<sup>2</sup> of acetone-fixed frozen tissue sections, zinc-fixed paraffin-embedded sections and formalin-fixed paraffin-embedded sections.

- Application References:**
1. Nishimura M, *et al.* 2002. *J. Immunol.* 168:6173.
  2. Nanki T, *et al.* 2002. *Arthritis Rheum.* 46:2878.
  3. Kobayashi T, *et al.* 2007. *Inflamm. Bowel Dis.* 13:837.
  4. Beziat V, *et al.* 2011. *J. Immunol.* 186:6753. [PubMed](#).

**Description:** CD298 or the β<sub>3</sub> Na<sup>+</sup>/K<sup>+</sup> ATPase, is a 42 kD type II transmembrane protein, also known as ATP1B3. An integral plasma membrane protein, Na<sup>+</sup>/K<sup>+</sup> ATPase is composed of one α and one β subunits. Four isoforms of the α and three isoforms of the β subunits have been reported. Na<sup>+</sup>/K<sup>+</sup> ATPase couples ATP hydrolysis to the development of an ionic gradient by pumping Na<sup>+</sup> and K<sup>+</sup> ions in opposite directions across the cell plasma membrane. It has broad tissue distribution, including all leukocytes and many other tissues.

- Antigen** 1. Zola H, et al. 2007. *Leukocyte and Stromal Cell Molecules: The CD Markers*  
**References:** Wiley-Liss A John Wiley & Sons Inc, Publication
2. Chiampanichayakul S, et al. 2006. *Tissue Antigens*. 68:509
  3. Malik N, et al. 1996. *J. Biol. Chem.* 271:22754