

Technical Data Sheet

APC Anti-Human CD298

Catalog Number: 109111, 109112

Size: 25 tests, 100 tests

Target Name: CD298, ATPB-3, Na, K-ATPase beta-3 polypeptide

Regulatory Status: RUO

Product Details

Clone: LNH-94

Application: FC

Reactivity: Human

Format: APC

Isotype: Mouse IgG1

Antibody Type: Monoclonal

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

Protein Concentration: Supplied at a lot-specific concentration.

Storage&Handling: The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.

Recommended Usage: For flow cytometric staining, it is recommended to use 5 µL of this reagent per 0.5-1.0 million cells in a 100 µL volume. Optimal reagent performance should be determined by titration for each specific application.

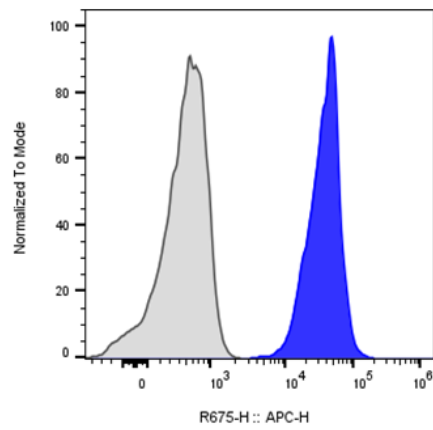
Excitation Laser: Red Laser (633 nm)

Release Date: Nov-25

Background Information

CD298, also known as the sodium/potassium-transporting ATPase subunit beta-3 or ATP1B3, is a 42 kDa type II transmembrane glycoprotein encoded by the ATP1B3 gene in humans. It is part of the Na⁺/K⁺-ATPase enzyme complex, which consists of a catalytic α subunit and a regulatory β subunit. CD298 belongs to the family of Na⁺/K⁺ and H⁺/K⁺ ATPase beta chain proteins and specifically to the Na⁺/K⁺-ATPase subfamily. This integral plasma membrane protein is essential for establishing and maintaining the electrochemical gradients of sodium and potassium ions across the cell membrane—gradients that are crucial for osmoregulation, sodium-coupled transport of various molecules, and the electrical excitability of nerve and muscle cells. The β_3 subunit plays a regulatory role by assisting in the proper assembly and membrane localization of the $\alpha\beta$ heterodimer complex. CD298 is broadly expressed across various tissues, including all leukocyte populations.

Product Data



Human peripheral blood lymphocytes stained either APC Anti-Human CD298 clone LNH-94 (color-filled histogram) or an isotype control (gray histogram).