Product Description

The LNH-94 antibody reacts with human CD298, the β3 subunit of the Na+/K+ ATPase. The Na+/K+ ATPase is a 42 kDa type II transmembrane protein composed of four catalytic α subunits and three smaller glycosylated non-catalytic β subunits. The Na+/K+ ATPase is important for establishing electrochemical gradients and maintaining normal resting membrane potential by coupling ATP hydrolysis to the active transport of Na+ and K+. The β subunits have been reported to act as chaperones that stabilize the α subunits and occlude K+. CD298 has been used to identify metastatic human cancer cells in mouse xenograft models and has been reported to modulate aspects of immunity, including HIV production, and T cell and B cell activation. CD298 is found on leukocytes, platelets, and most other tissue types.

Target Antigen Name: CD298
Alternative Names: ATP1B3, Na+/K+ ATPase beta3
Gene ID: 483
Species Reactivity: Human
Host Species: Mouse
Clonality: Monoclonal
Clone: LNH-94
Isotype: IgG1, kappa
Immunogen: Not available
Conjugate: PE

Applications

Verified: FC
Reported: FC

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; FC: Flow cytometry; ICC: Immunocytochemistry; IF: Immunofluorescence microscopy; IHC: Immunohistochemistry; IP: Immunoprecipitation; RIA: Radioimmunoassay; WB: Western blotting

Properties

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA
Purification: The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.
Stability and Storage: Product stable at 2 - 8°C when stored undiluted. Do not freeze. Protect product from prolonged exposure to light. For product expiry date, please contact techsupport@stemcell.com.
Directions for Use: For flow cytometry the suggested use of this antibody is 5 μL per 1 x 10^6 cells in 100 μL volume. It is recommended that the antibody be titrated for optimal performance for each application.
Data

Flow cytometry analysis of human peripheral blood mononuclear cells (PBMCs; gated on lymphocytes) labeled with Anti-Human CD298 Antibody, Clone LNH-94, PE (filled histogram), or Mouse IgG1, kappa Isotype Control Antibody, Clone MOPC-21, PE (Catalog #60070PE; solid line histogram).

Related Products

For a complete list of antibodies, including other conjugates, sizes and clones, as well as related products available from STEMCELL Technologies, please visit our website at www.stemcell.com/antibodies or contact us at techsupport@stemcell.com.

References