

Pacific Blue™ anti-human CD57

Catalog # / Size: 322315 / 25 µg
322316 / 100 µg

Clone: HCD57

Isotype: Mouse IgM, κ

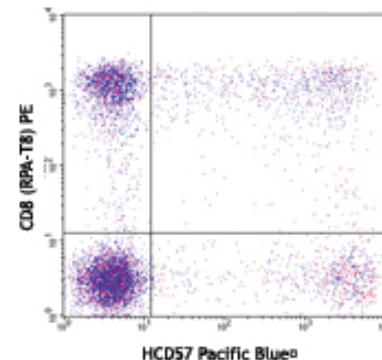
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography, and conjugated with Pacific Blue™ under optimal conditions. The solution is free of unconjugated Pacific Blue™.

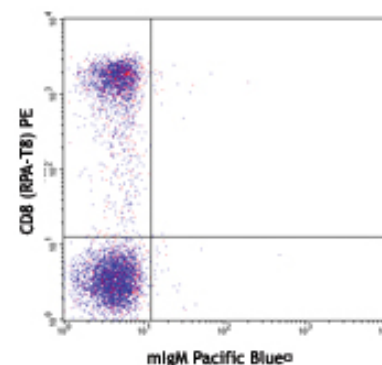
Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



Human peripheral blood lymphocytes stained with CD8 (RPA-T8) PE and HCD57 Pacific Blue™ (top) or mIgM Pacific Blue™ isotype control (bottom)



Applications:

Applications: FC - Quality tested

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤ 0.25 µg per 10⁶ cells in 100 µl volume or 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

* Pacific Blue™ has a maximum emission of 455 nm when it is excited at 405 nm. Prior to using Pacific Blue™ conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.

** Pacific Blue™ is a registered trademark of Molecular Probes, Inc. Pacific Blue™ dye antibody conjugates are sold under license from Molecular Probes, Inc. for research use only, except for use in combination with microarrays and high content screening, and are covered by pending and issued patents.

Application Notes: The HCD57 antibody has been shown to recognize human CD57 and to be useful for flow cytometry.

Application References:

1. Kaplan RC, *et al.* 2011. *J. Infect Dis.* 10:76. PubMed
2. Lutz CT, *et al.* 2011. *J. Immunol.* 186:4590. PubMed
3. Leeansyah E, *et al.* 2013. *Blood.* 121:1124. PubMed.
4. Simmons R, *et al.* 2013. *J Virol.* 87:3087. PubMed.

Description: CD57, also known as HNK-1, NK-1, and Leu-7, is a 100-115 kD oligosaccharide antigenic determinant expressed on a variety of proteins, lipids, and chondroitin sulfate proteoglycans. CD57 is expressed on a subset of peripheral blood lymphocytes, including NK cells and CD8⁺ T cells, and is also expressed on neural cells and striated muscle. CD57 is not expressed on red cells, granulocytes, monocytes, or platelets. While the function of CD57 is unknown, binding to L-selectin, P-selectin, and a fragment of laminin suggests that CD57 may be involved in cell-matrix interactions. CD57 is increased in some disease states associated with CD4/CD8 imbalances (AIDS, autoimmune disease, viral infections, and allograft transplants).

Antigen References:

1. Schubert J, *et al.* 1989. In *Leucocyte Typing IV* (Knapp W, ed) Oxford University Press Oxford pp 711-714.
2. Palmer BE, *et al.* 2005. *J. Immunol.* 175:8415.
3. Schachner M, *et al.* 1995. *Trends Neurosci.* 18:183.
4. Wood KL, *et al.* 2005. *Clin. Immunol.* 117:294.

Related Products:

Pacific Blue™ Mouse IgM, κ Isotype Ctrl	Clone	Application
Cell Staining Buffer	MM-30	FC, ICFC
RBC Lysis Buffer (10X)		FC, ICC, ICFC
Human TruStain FcX™ (Fc Receptor Blocking Solution)		FC, ICFC



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