

Alexa Fluor® 647 anti-human CD57

Catalog # / Size: 322307 / 25 tests
322308 / 100 tests

Clone: HCD57

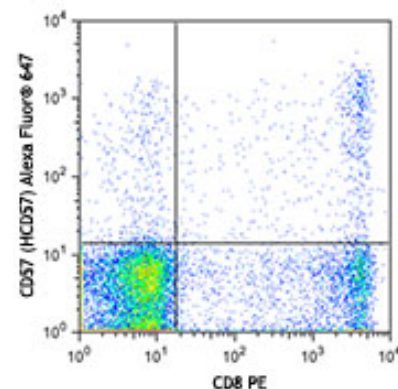
Isotype: Mouse IgM, κ

Reactivity: Human

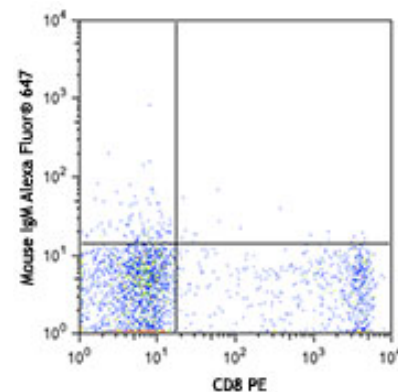
Preparation: The antibody was conjugated with Alexa Fluor® 647 under optimal conditions, and is at >85% purity. The solution is free of unconjugated Alexa Fluor® 647.

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

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 were stained with CD8 PE and CD57 (clone HCD57) Alexa Fluor® 647 (top) or mouse IgM Alexa Fluor® 647 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 5 μ l per million cells or 5 μ l per 100 μ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

* Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633nm / 635nm.

** Alexa Fluor® is a registered trademark of Molecular Probes, Inc. Alexa Fluor® 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

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: Product

Cell Staining Buffer
Alexa Fluor® 647 Mouse IgM, κ Isotype Ctrl
Human TruStain FcX™ (Fc Receptor Blocking Solution)

Clone

MM-30

Application

FC, ICC, ICFC
FC, ICFC
FC, ICC, ICFC



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