

Pacific Blue™ anti-human CD57 Recombinant Antibody

Catalog# / Size	313110 / 25 tests 313111 / 100 tests
Clone	QA22A14
Regulatory Status	RUO
Other Names	HNK-1, NK-1, Leu-7, B3GAT1
Isotype	Mouse IgG2a, κ
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 blood 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).

Product Details

Verified Reactivity	Human
Antibody Type	Recombinant
Host Species	Mouse
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with Pacific Blue™ under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our Certificate of Analysis online tool.)
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.
Application	FC - Quality tested
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. 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. Alexa Fluor® and Pacific Blue™ are trademarks of Life Technologies Corporation. View full statement regarding label licenses
Excitation Laser	Violet Laser (405 nm)
RRID	AB_3720489 (BioLegend Cat. No. 313110) AB_3720489 (BioLegend Cat. No. 313111)

Antigen Details

Structure	Oligosaccharide antigenic determinant present on a variety of proteins, lipids, and chondroitin sulfate proteoglycans, 100-115 kD. The antigen is conserved across species.
Distribution	NK cells, subset of CD8+ T cells, neural cells, striated muscle
Ligand/Receptor	Binds to L-selectin and P-selectin in a calcium-dependent manner, also binds to second globular domain of E8 laminin fragment.
Cell Type	NK cells, T cells
Biology Area	Cell Adhesion, Cell Biology, Costimulatory Molecules, Immunology
Molecular Family	CD Molecules
Antigen References	- Schubert J, <i>et al.</i> 1989. <i>In Leucocyte Typing IV</i> (Knapp W, ed) Oxford University Press Oxford pp. 711-714. - Palmer BE, <i>et al.</i> 2005. <i>J Immunol.</i> 175:8415-23. - Schachner M, <i>et al.</i> 1995. <i>Trends Neurosci.</i> 18:183-91. - Wood KL, <i>et al.</i> 2005. <i>Clin. Immunol.</i> 117:294-301.
Gene ID	27087

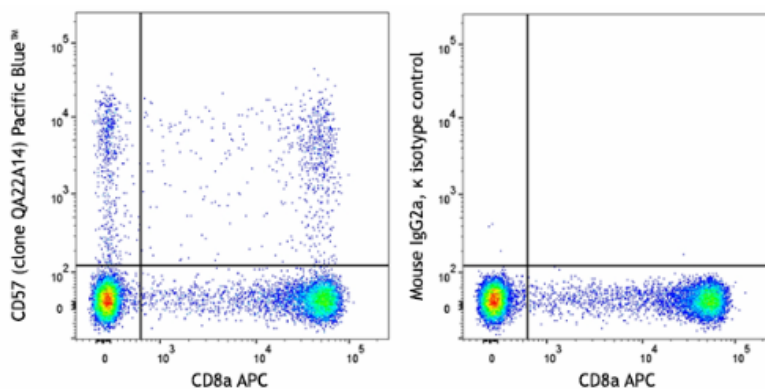
Related Protocols

- [Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-human CD57 Recombinant Antibody, Pacific Blue™ anti-human CD57 Recombinant Antibody

Product Data



Human peripheral blood lymphocytes were stained with anti-human CD8a (clone RPA-T8) APC and anti-human CD57 recombinant (clone QA22A14) Pacific Blue™ (left) or mouse IgG2a, κ Pacific Blue™ isotype control (right).

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