

PerCP/Fire™ 780 anti-human CD57 Recombinant Antibody

Catalog# / Size	393337 / 25 tests 393338 / 100 tests
Clone	QA17A04
Regulatory Status	RUO
Other Names	HNK-1, NK-1, Leu-7, B3GAT1
Isotype	Mouse IgG1, 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
Immunogen	Membrane extract of human lymphoblastoid cell line HSB-2.
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 PerCP/Fire™ 780 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. * PerCP/Fire™ 780 has a maximum excitation of 478 nm and a maximum emission of 780 nm.
Excitation Laser	Blue Laser (488 nm)
RRID	AB_3675126 (BioLegend Cat. No. 393337) AB_3675126 (BioLegend Cat. No. 393338)

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	<ol style="list-style-type: none"> Schubert J, <i>et al.</i> 1989. In <i>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. Schachner M, <i>et al.</i> 1995. <i>Trends Neurosci.</i> 18:183. Wood KL, <i>et al.</i> 2005. <i>Clin. Immunol.</i> 117:294.
Gene ID	27087

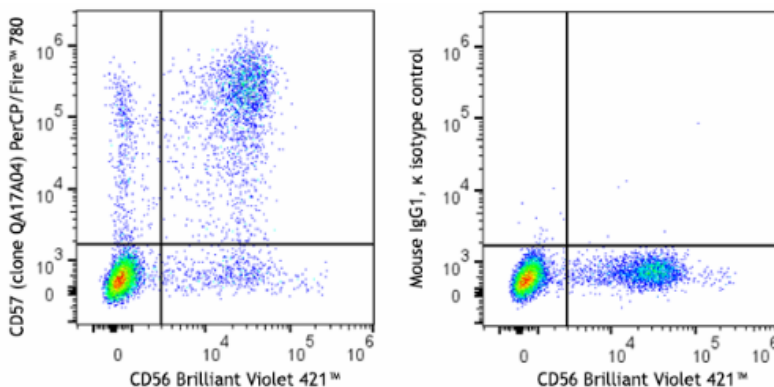
Related Protocols

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

Other Formats

Purified anti-human CD57 Recombinant Antibody, Brilliant Violet 605™ anti-human CD57 Recombinant Antibody, APC anti-human CD57 Recombinant Antibody, Brilliant Violet 510™ anti-human CD57 Recombinant Antibody, PerCP/Cyanine5.5 anti-human CD57 Recombinant Antibody, PE anti-human CD57 Recombinant Antibody, PE/Cyanine7 anti-human CD57 Recombinant Antibody, PE/Dazzle™ 594 anti-human CD57 Recombinant Antibody, TotalSeq™-C0168 anti-human CD57 Recombinant Antibody, TotalSeq™-A0168 anti-human CD57 Recombinant Antibody, TotalSeq™-B0168 anti-human CD57 Recombinant Antibody, Brilliant Violet 785™ anti-human CD57 Recombinant Antibody, Brilliant Violet 421™ anti-human CD57 Recombinant Antibody, Brilliant Violet 711™ anti-human CD57 Recombinant Antibody, TotalSeq™-D0168 anti-human CD57 Recombinant Antibody, Spark PLUS UV395™ anti-human CD57 Recombinant Antibody, PerCP/Fire™ 780 anti-human CD57 Recombinant Antibody, PerCP/Fire™ 806 anti-human CD57 Recombinant Antibody

Product Data



Human peripheral blood lymphocytes were stained with anti-human CD56 (clone HCD56) Brilliant Violet 421™ and anti-human CD57 recombinant (clone QA17A04) PerCP/Fire™ 780 (left) or mouse IgG1, κ PerCP/Fire™ 780 isotype control (right).

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