

InnoCyto Inc.

15375 Barranca Pkwy, Suite I-103 Irvine, CA 92618

Technical Data Sheet

iF647 Anti-Human CD57

Catalog Number: 110502, 110503

Size: 25 tests, 100 tests

Target Name: CD57, HNK-1, Leu-7, NK-1

Regulatory Status: RUO

Product Details

Clone: HNK-1
Application: FC
Reactivity: Human
Format: iF647
Isotype: Mouse IgM

Antibody Type: Monoclonal

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

BSA

Protein Concentration: Supplied at a lot-specific concentration.

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.

Recommended Usage: For flow cytometric staining, it is recommended to use 5 uL of this reagent per 0.5-1.0 million cells in a 100 μL volume. Optimal reagent performance should be determined by

titration for each specific application. **Excitation Laser:** Red Laser (633 nm)

Release Date: Nov-25

Background Information

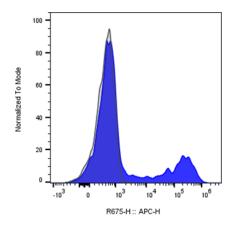
CD57 (HNK-1, NK-1, Leu-7) is a 100–115 kDa oligosaccharide antigen expressed on a variety of proteins, lipids, and chondroitin sulfate proteoglycans. It is found on terminally differentiated NK cells, CD8+ T cells, and a subset of peripheral blood lymphocytes, as well as on neural cells and striated muscle, but not on red blood cells, granulocytes, monocytes, or platelets. Although its precise function is unclear, CD57 can bind L-selectin, P-selectin, and laminin fragments, suggesting a role in cell–matrix interactions. CD57+ immune cells exhibit potent cytotoxicity but reduced proliferation and cytokine responsiveness. Clinically, CD57 expression is elevated in conditions with CD4/CD8 imbalances, including chronic viral infections, autoimmune diseases, AIDS, and post-transplant states, while low levels may be observed in conditions like Lyme disease.

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Human peripheral blood lymphocytes stained either iF647 Anti-Human CD57 clone HNK-1 (color-filled histogram) or an isotype control (gray histogram).