

Technical Data Sheet

Anti-Human CD57

Catalog Number: 110501

Size: 500 ug

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

Regulatory Status: RUO

Product Details

Clone: HNK-1

Application: FC

Reactivity: Human

Format: Purified

Isotype: Mouse IgM

Antibody Type: Monoclonal

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

Protein Concentration: 0.5 mg/mL

Storage&Handling: The antibody solution should be stored between 2°C and 8°C

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.