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InnoCyto Inc.

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Anti-Human CD57 Antibody

Catalog Number:	110501
Size:	500 ug
Target Name:	CD57, HNK-1, Leu-7, NK-1
Regulatory Status:	RUO

PRODUCT DETAILS

Clone:	HNK-1
Application:	Flow Cytometry
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
Recommended Usage:	For flow cytometric staining, it is recommended to use less than 0.2 µg 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.
Isotype Control:	302001
RRID:	AB_3738942

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.