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InnoCyto Inc.

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FITC Anti-Human CD57 Antibody

Catalog Number:	110504, 110505
Size:	25 tests, 100 tests
Target Name:	CD57, HNK-1, Leu-7, NK-1
Regulatory Status:	RUO

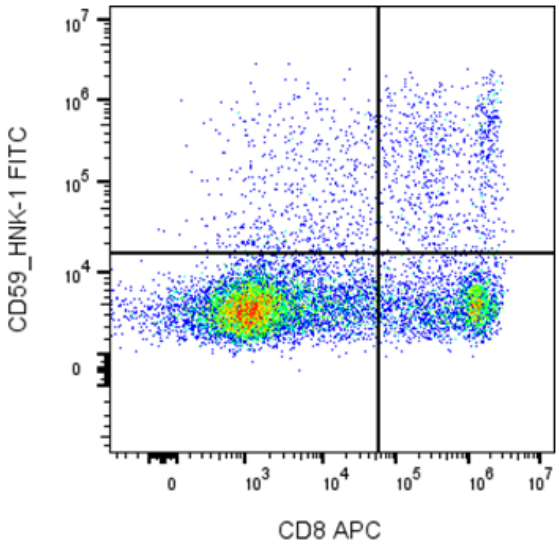
PRODUCT DETAILS

Clone:	HNK-1
Application:	Flow Cytometry
Reactivity:	Human
Format:	FITC
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 µL 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. FITC has an excitation max at 493 nm and an emission max at 525 nm.
Excitation Laser:	Blue Laser (488 nm)
Isotype Control:	302004
RRID:	AB_3738944

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.

PRODUCT DATA



Human peripheral blood lymphocytes was stained with FITC Anti-Human CD57 clone HNK-1 and APC anti-Human CD8.

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