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InnoCyto Inc.

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Anti-mouse CD5 Antibody

Catalog Number:	203201, 203202
Size:	100 μg, 500 μg
Target Name:	CD5, Ly-12, Ly-1, Lyt-1, Tp67
Regulatory Status:	RUO

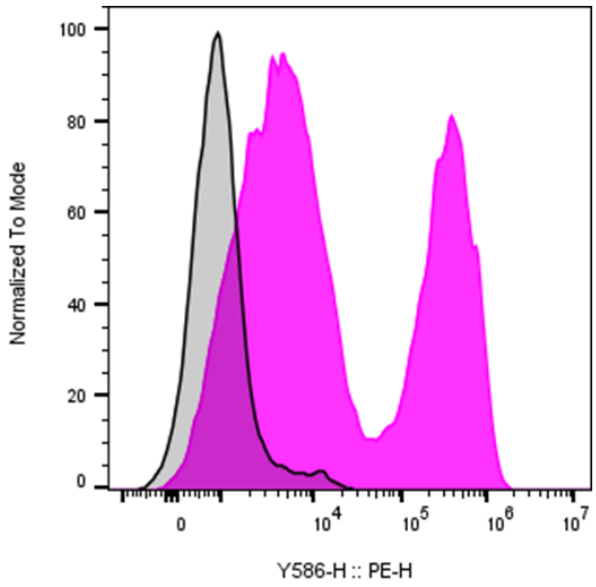
PRODUCT DETAILS

Clone:	53-7.3
Application:	Flow Cytometry
Reactivity:	Mouse
Format:	Purified
Isotype:	Rat IgG2a
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
Isotype Control:	300201
Recommended Usage:	For flow cytometric staining, it is recommended to use less than 0.25 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.

BACKGROUND INFORMATION

CD5 is a single-chain transmembrane glycoprotein expressed predominantly on mouse T cells and B1 cells, a specialized subset of IgM-secreting B cells. It functions as a negative regulator of antigen receptor signaling by attenuating signals from the T cell receptor (TCR) and B cell receptor (BCR), thereby modulating lymphocyte activation thresholds. Through interactions with intracellular phosphatases such as SHP-1, CD5 helps maintain immune tolerance and limits autoreactive responses. CD5-expressing cells are also associated with regulatory functions, including cytokine production such as IL-10. Owing to its regulatory role, CD5 is an important marker and functional modulator in mouse T and B cell development, activation, and immune homeostasis.

PRODUCT DATA



Mouse splenocytes were stained with purified Anti-Mouse CD5 clone 53-7.3 (color-filled histogram) or an isotype control (gray histogram), followed by PE anti-Rat IgG.

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