



The Application of **Perforin** in Flow Cytometry

Perforin, the clone B-D48, a mouse monoclonal antibody selectively recognizes ~70 KDa cytoplasmic cytotoxic granules poreforming protein known as Perforin. Perforin is primarily expressed in the cytoplasm of cytotoxic T lymphocytes (CTLs) and natural killer (NK) cells through which these cells perform their anti-viral and antitumor killing activities.

Perforin is readily detectable by flow cytometry in resting CD8 T cells. Polychromatic flow cytometry was used to detect perforin and cytokine production following stimulation of ex vivo human CD8 T cells. The B-D48 clone is able to detect perforin in multiple forms.

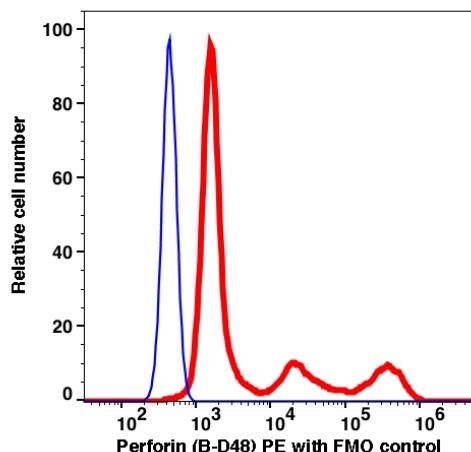
Perforin and granzymes work synergistically to induce apoptosis in target cells recognized by cytotoxic T lymphocytes.

Our Granzyme B will be coming soon. Stay tuned!

Perforin PE

113625

Representative data



Lymphocytes gated PMA stimulated fixed and permeabilized PBMCs intracellularly stained with Perforin (B-D48) PE (RED); Lymphocytes gated PMA stimulated fixed and permeabilized PBMCs are used as FMO control (BLUE).

References

1. Shiver, JW, et al. 1991. Cell. 64:1175.
2. Lieberman J. 2003. Nat. Rev. Immunol. 3:361
3. Harari, A, et al. 2009. Journal of Virology. 83:2862

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NEW PRODUCT

Product	Size	Clone	Catalog #
CD79a PerCP-Cyanine5.5	100Test	ZL7-4	115165
IgM PerCP	100Test	M-2E6	111335
CD14 PE-CF594	100Test	26ic	1034205
CD19 APC	100Test	C-BL02	116745
CD90 APC	100Test	F15-42-1	101845
CD27 Biotin	100Test	C813.21	125751
CD64 PerCP-Cyanine5.5	100Test	32.2	107165
CD10 FITC	100Test	CD10 FITC	114915
CD15 PE-Cyanine7	100Test	FUT4/815	105085
CD14 FITC	100Test	C-2386	122315
CD13 PerCP-Cyanine5.5	100Test	WM15	123965
CD1a APC	100Test	OKT6	111545
CD79a APC	100Test	ZL7-4	115145
CD33 PerCP-Cyanine5.5	100Test	WM53	104095

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