

CD7 (B-E12)

Type	Size	Catalog number
Unconjugated	100µg	114001
	500µg	114003
iFluor™ 488	25 tests	1140114
	100 tests	1140115
	200 tests	1140116

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Antigen:	CD7
Immunogen:	Chronic Lymphoid Leukemia cells (CLL)
Host/Isotype:	Mouse, IgG2a,κ
Reactivity:	Human
Purity:	>90% pure tested via polyacrylamide gel electrophoresis (PAGE)
Formulation:	PBS, pH7.2, 0.09%NaN ₃ (unconjugated) PBS, pH7.2, 0.09% NaN ₃ and 0.2% (w/v) BSA (conjugated)
Storage:	Store at 2-8°C and protected from prolonged exposure to light. Do not freeze.
Applications:	Flow Cytometry

Application Information

Each lot of these antibodies has been pre-titrated and tested by flow cytometric analysis of human PBMCs such that 0.5µg (unconjugated, Biotin) or 5µl (conjugated) of these products are sufficient for staining 1 million cells in a 100µl staining volume or 100µl of whole blood. It is recommended to titrate antibody reactivity empirically for optimal performance.

Antigen Information

The clone B-E12, a mouse monoclonal antibody selectively recognizes ~40 kDa type I transmembrane glycoprotein antigen known as CD7. It is a member of Ig superfamily and abundantly expressed on the cell surface of the human T cells and a subset of NK cells. The CD7 is expressed throughout the process of T lymphocyte differentiation and is present on 85% to 90% of peripheral blood T cells. It is also expressed on acute lymphocytic leukemia (ALL) and some type of acute myeloid leukemia (AML) cells.

References

1. Stillwel, R, et al. 2001. *Immunol Res.* 24:31.
2. Rabinowich H, et al. 1994. *J Immunol.* 152:517.
3. Hoebeke, I, et al. 2007. *Leukemia.* 21:311.
4. Greenberg JM, et al. 1986. *J Immunol.* 137:2043.
5. Pittaluga S, et al. 1986. *Blood.* 68:134.

Terms and Conditions

This product is for research use only (RUO) and not intended for diagnostic testing.