



CD45

Product: Anti-human Leukocyte (HLe-1) monoclonal antibody.

Description: Identification of all human leukocytes, lymphocytes, monocytes, polymorphonuclear cells, eosinophils and basophils in peripheral blood expressing the 180-220 kD M. W. T200 family surface antigen. CD45 is also present on thymus, spleen, tonsil and progenitor cells in bone marrow.

Isotype: Mouse IgG-1 kappa.

Clone: BHPT-1

Applications: Monitoring of Leukocyte cell subsets in peripheral blood; Characterization of subtypes of leukemia's and lymphomas; Study of AIDS virus infection; Studies of progenitor cells in bone marrow.

Use: PBMC: Add 10 μ l of MAB/10⁶ PBMC in 100 μ l PBS. Mix gently and incubate for 15 minutes at 2^o to 8^oC. Wash twice with PBS and analyze or fix with 0.5% v/v of paraformaldehyde in PBS and analyze. WHOLE BLOOD: Add 10 μ l of MAB/100 μ l of whole blood. Mix gently and incubate for 15 minutes at room temperature (20^oC). Lyse the whole blood. Wash once with PBS and analyze or fix with 0.5% v/v of paraformaldehyde in PBS and analyze. See instrument manufacturer's instructions for Lysed Whole Blood and Immunofluorescence analysis with a flow cytometer or microscope. ALLOPHYCOCYANIN: (APC) conjugates are analyzed in multi-color flow cytometry with instruments equipped with a second laser and proper filters. Laser excitation is at 633 nm with a Helium Neon (HeNe) laser or a 600-640 nm (633 nm) range for a Dye laser. Peak fluorescence emission is at 660 nm. RPE-Cy-5*: As above, however use only 5 μ l per test rather than 10 μ l. Excites at 488nm and emits at 670nm. Store protected from light.

Storage: Antibodies are supplied in PBS, 0.08% sodium azide, and 0.2% protein carrier for Pure, FITC, Biotin and PE. Antibodies should be stored at 4-8^oC. Monoclonal antibodies should not be frozen. Reagents are stable for the period shown on the vial label when stored properly.

Ordering Information:	Form	Vial Size	Catalog #
	Unconjugated	100 μ g	0451
	FITC	100 Test	0452
	Biotin	100 Test	0453
	RPE	100 Test	0454
	APC	100 Test	AP45
	RPE-Cy-5	100 Test	X1043

REFERENCES:

1. Leukocyte Typing IV: White Cell Differentiation Antigens, Schwinzer R. Cluster report: CD45/CD45R, Knapp W., Dorken B., Gilks W.R., et al, eds. Oxford University Press; 1989:628-634
2. Association of CD2 and CD45 on human T lymphocytes. Schraven B., Samstag Y., Altevogt P., Meuer S.C., Nature 1990 May; 345(6270):71-4

Cy-5* Portions of this product are manufactured under license from Carnegie Mellon University, U.S. Patent Number 5,268,486.

For research use only. Not for use in human diagnostics or therapeutics.

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