

Technical Data Sheet

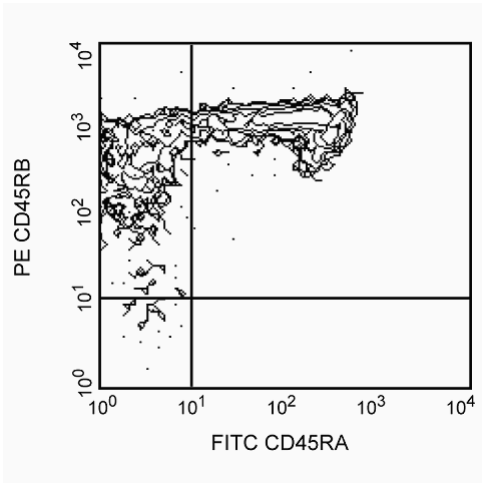
PE Mouse Anti-Human CD45RB

Product Information

Material Number:	555904
Size:	100 tests
Vol. per Test:	20 µl
Clone:	MT4 (6B6)
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Human
Workshop:	VI N-L163
Storage Buffer:	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

MT4 (6B6) reacts with the 190, 205 and 220 kDa isoforms of the glycoprotein cell-surface antigen, CD45RB. The antigen is expressed primarily on a subset of human B and T lymphocytes, monocytes, macrophages and granulocytes (weak). CD4+, CD45RA- (memory T cells) cells show a differential expression of CD45RB. Bright CD45RB expression correlates with higher proliferation and IFNγ production when compared with dim CD45RB expression. CD45RB expression may be a mechanism for fine-tuning the responsiveness of memory cells in vivo.



Profile of peripheral blood lymphocytes analyzed by flow cytometry

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed. Store undiluted at 4° C and protected from prolonged exposure to light. Do not freeze.

Application Notes

Application

Flow cytometry	Routinely Tested
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Suggested Companion Products

Catalog Number	Name	Size	Clone
555749	PE Mouse IgG1, κ Isotype Control	100 tests	MOPC-21

Product Notices

1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use 1 X 10⁶ cells in a 100-µl experimental sample (a test).

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2. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
3. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
4. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/pharmingen/colors.
5. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
6. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References

Schlossman SF, Bousmell L, Gilks W, et al, ed. *Leukocyte Typing V: White Cell Differentiation Antigens*. New York: Oxford University Press; 1995.(Biology)
Knapp W, Dörken B, Rieber EP, et al, ed. *Leukocyte Typing IV*. New York: Oxford University Press; 1989.(Biology)
Horgan KJ, Tanaka Y, Luce GE, van Seventer GA, Nutman TB, Shaw S. CD45RB expression defines two interconvertible subsets of human CD4+ T cells with memory function. *Eur J Immunol*. 1994; 24(5):1240-1243.(Biology)