

Technical Data Sheet

Rat T/B/NK Cell Cocktail

Product Information

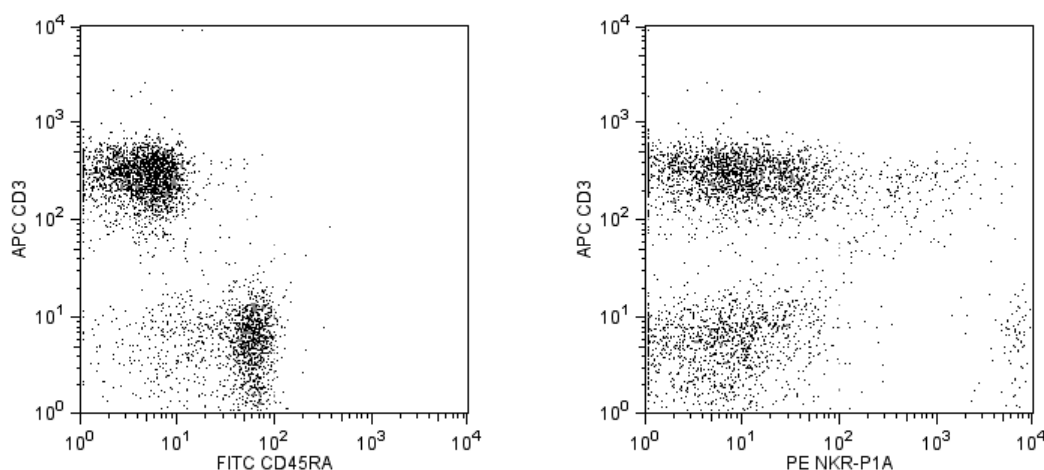
Material Number:	558495
Size:	50 tests
Vol. per Test:	20 ul
Reactivity:	QC Testing: Rat
Storage Buffer:	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

Cocktail Component	Clone	Isotype
APC anti-Rat CD3	1F4	mIgM
FITC anti-Rat CD45RA	OX-33	mIgG1
PE anti-Rat CD161a	10/78	mIgG1

The Rat T/B/NK Cocktail is a three-color reagent cocktail designed to identify rat T, B, and NK lymphocyte populations by direct immunofluorescent staining with flow cytometric analysis. The monoclonal antibody clone 1F4 has been reported to react with the T-cell receptor-associated CD3 cell-surface antigen found on thymocytes and peripheral T lymphocytes. The monoclonal antibody clone OX-33 has been reported to react with CD45RA found only on B lymphocytes. The monoclonal antibody clone 10/78 has been reported to react with NKR-P1A (CD161a), 60-kDa homodimer expressed on all natural killer (NK) cells and a small subset of T lymphocytes.

This antibody cocktail is routinely tested by flow cytometric analysis. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.



Three color analysis of the expression of CD3, CD45RA and CD161a/NKR-P1A on rat splenocytes. A single cell suspension of Lewis splenocytes was stained with either Isotype Control Cocktail - A (Cat. no. 558509, data not shown) or Rat T/B/NK Cocktail (Cat. no. 558495). The figure on the left represents the CD3 and CD45RA profile gating on whole spleen. The figure on the right represents the CD3 and CD161a/NKR-P1A profile gating on whole spleen. Flow cytometry was performed on a BD FACSCalibur™ instrument.

Preparation and Storage

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
558509	Ig Isotype Control Cocktail - A	20 tests	(none)

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Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
3. 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.
4. Please refer to www.bdbiosciences.com/pharming/en/protocols for technical protocols.

References

Kraus E, Lambricht D, Wonigeit K, Hunig T. Negative regulation of rat natural killer cell activity by major histocompatibility complex class I recognition.. *Eur J Immunol.* 1996; 26(11):2582-2586. (Biology)

Tanaka T, Masuko T, Yagita H, Tamura T, Hashimoto Y. Characterization of a CD3-like rat T cell surface antigen recognized by a monoclonal antibody.. *J Immunol.* 1989; 142(8):2791-2795. (Biology)

Woollett GR, Barclay AN, et al. Molecular and antigenic heterogeneity of the rat leukocyte common antigen from thymocytes and T and B lymphocytes.. *Eur J Immunol.* 1985; 15:168-173. (Biology)

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