Technical Data Sheet

Rat Activated T Lymphocyte Cocktail

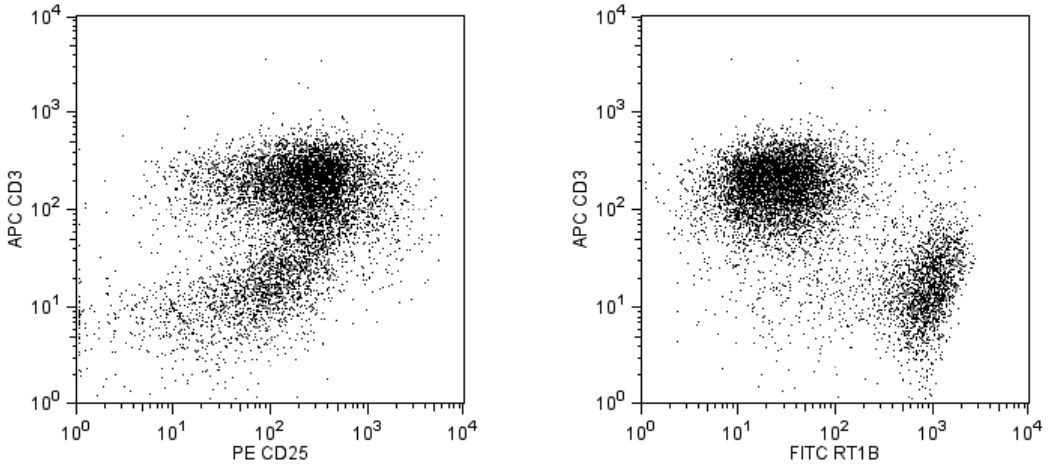
Product Information

Material Number:	**558494**
Size:	50 tests
Vol. per Test:	20 ul
Storage Buffer:	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

Cocktail Component	Clone	Isotype
APC anti-Rat CD3	1F4	mIgM
PE anti-Rat CD25	OX-39	mIgG1
FITC anti-Rat RT1B	OX-6	mIgG1

The Rat Lymphocyte Activation Cocktail is a three-color reagent cocktail designed to identify rat activated lymphocytes by direct immunofluorescent staining with flow cytometric analysis. The 1F4 antibody reacts with the T-cell receptor-associated CD3 cell-surface antigen found on thymocytes and peripheral T lymphocytes (3). The OX-39 antibody reacts with the alpha chain of the IL-2 receptor on T lymphoblasts and thymic and splenic dendritic cells (2). The OX-6 antibody reacts with non-polymorphic determinants of the Rat MHC class II antigens, I-A equivalent (1).



Three-color analysis of activated T lymphocytes on rat splenocytes. A single-cell suspension of Lewis splenocytes was activated with Con A for 3 days, then stained with Rat Lymphocyte Activation Cocktail. The figure on the left represents the CD3 and CD25 profile gating on whole spleen. The figure on the right represents the RT1B and CD3 profile gating on whole spleen. Flow cytometry was performed on a BD FACSCalibur.™

Preparation and Storage

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

Application Notes

Application

Flow cytometry	Tested During Development

Suggested Companion Products

Catalog Number	Name	Size	Clone
558509	Ig Isotype Control Cocktail - A	20 tests	(none)
558512	Rat Activation Compensation Set	20 tests	(none)

Product Notices

1. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
2. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

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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.

References

Fukumoto T, McMaster WR, Williams AF, et al. Mouse monoclonal antibodies against rat major histocompatibility antigens. Two Ia antigens and expression of Ia and class I antigens in rat thymus. *Eur J Immunol.* 1982; 12:237-243. (Clone-specific)

McMaster WR, Williams AF et al. Identification of Ia glycoproteins in rat thymus and purification from rat spleen.. *Eur J Immunol.* 1979; 9:426-433. (Clone-specific)

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. (Clone-specific)