Technical Data Sheet

NHP T/B/NK Cell Cocktail

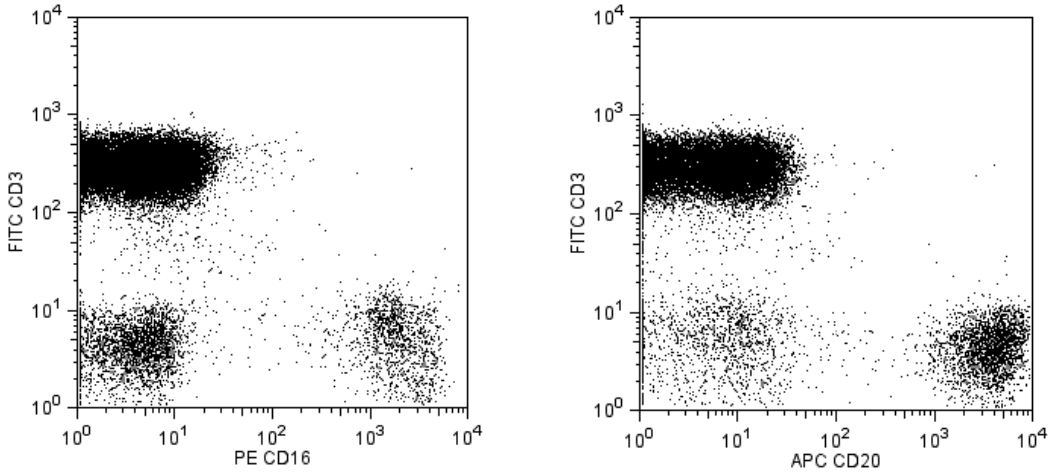
Product Information

Material Number:	**558639**
Size:	50 tests
Vol. per Test:	20 ul
Reactivity:	Human QC Testing: Rhesus, or Baboon, or Cynomolgus
Storage Buffer:	Aqueous buffered solution containing BSA, protein stabilizer, and ≤0.09% sodium azide.

Description

Cocktail Component	Clone	Isotype
FITC anti-Human CD3	SP34-2	mIgG1
PE anti-Human CD16	3G8	mIgG1
APC anti-Human CD20	L27	mIgG1

The NHP T/B/NK Cocktail is a three-color reagent cocktail designed to identify NHP T, B, and NK lymphocyte populations by direct immunofluorescent staining with flow cytometric analysis. Clone SP34-2 is a mouse IgG1 isotype monoclonal antibody, descendant of SP34 (mouse IgG3), with the same specificity and reactivity pattern as the parent clone. It cross-reacts with a major subset of peripheral blood lymphocytes, but not monocytes or granulocytes, of baboon, and rhesus, cynomolgus, and pigtail macaque monkeys. The monoclonal antibody clone L27 reacts with CD20 found only on B lymphocytes. The monoclonal antibody clone 3G8 reacts with CD16, the 50-65 kDa transmembrane form of IgG Fc (FcγRIII), a human NK-cell-associated antigen. CD16 is expressed on NK cells as well as macrophages and granulocytes.



Three-color analysis of the expression of CD3, CD16, and CD20 on lysed whole blood from Rhesus monkey*. PBMC from Rhesus monkey were stained with either Isotype Control Cocktail C (Cat. no. 558659; data not shown) or NHP T/B/NK Lymphocyte Cocktail (Cat. no. 558639). During data analysis, lymphocytes were identified by scatter profile and CD45 expression. The figure on the left represents the CD3 and CD16 profile while the figure on the right represents the CD3 and CD20 profile. 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.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated to APC under optimum conditions, and unconjugated antibody and free APC were removed.

The antibody was conjugated with FITC under optimum conditions, and unreacted FITC was removed.

The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed.

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Application Notes

Application

Flow cytometry	Routinely Tested

Suggested Companion Products

Catalog Number	Name	Size	Clone
558625	NHP T Lymphocyte Cocktail	50 tests	(none)
558659	Ig Isotype Control Cocktail - C	20 tests	(none)
558411	PerCP Mouse Anti-NHP CD45	50 tests	D058-1283

Product Notices

1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use 1 × 10^6 cells in a 100-µl experimental sample (a test).
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. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/colors.
5. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.

References

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