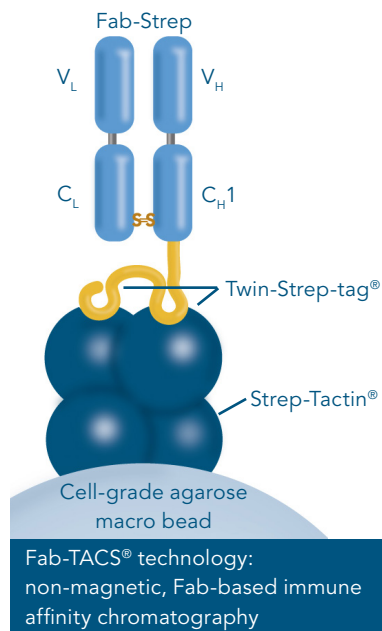


FAB-TACS® GRAVITY

Traceless Affinity Cell Selection





Fab-TACS® - TRACELESS AFFINITY CELL SELECTION

IBA's unique Strep-tag®/Strep-Tactin® system is the platform for the novel traceless affinity cell selection (Fab-TACS®) of cells. Fab-TACS® uses immune affinity chromatography based on CD-specific Fab fragments for reversible capture and release of target cells. The innovative Fab-TACS® procedure delivers label-free, non-activated target cells in a standardized manner of highly reproducible quality directly from whole blood or other blood preparations.

The Fab-TACS® positive selection completely resigns the use of high affinity antibodies whose usage causes unfavorable effects like strong and almost irreversible binding to cells, cell stimulation as well as receptor blockade.

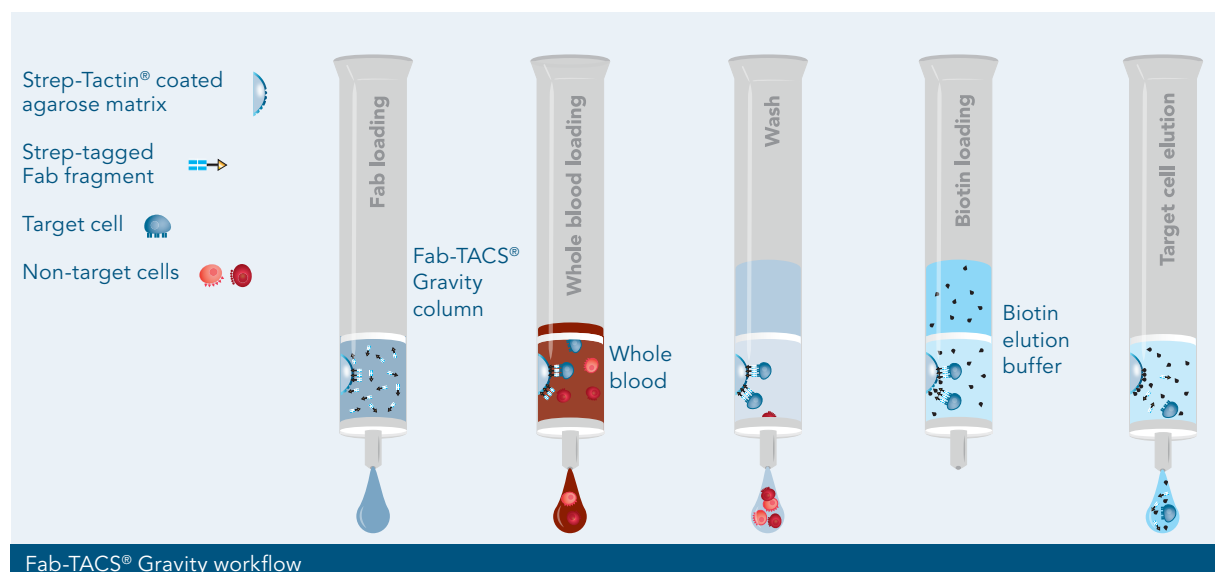
Fab-TACS® GRAVITY

Get highly pure cell populations within a few convenient steps

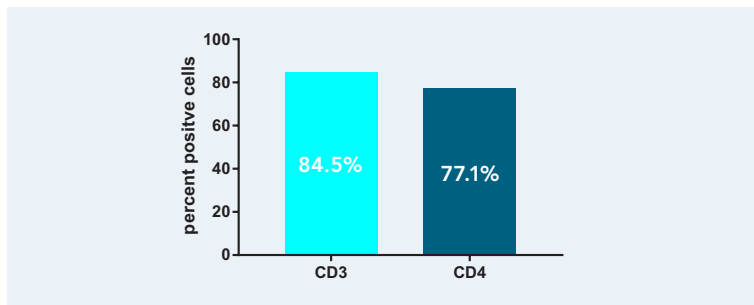
The Fab-TACS® Gravity column is filled with a Strep-Tactin® coated matrix made of cell-grade agarose. Strep-tagged Fab fragments (Fab-Streps) specifically bind to the matrix. Subsequently, whole blood or other blood preparations pass through the column. Target cells adhere to the matrix based on the exclusive binding of the Fab-Strep to the target cell. Non-target cells are efficiently washed away. In a final step, the addition of biotin causes the elution of the target cells and the Fab-Streps. After elution, the Fab-Streps self-dissociate from the cell surfaces. The label-free authentic target cells are now ready for further downstream applications.

Key Features:

- › High purity
- › High yield
- › High viability
- › Label-free cells



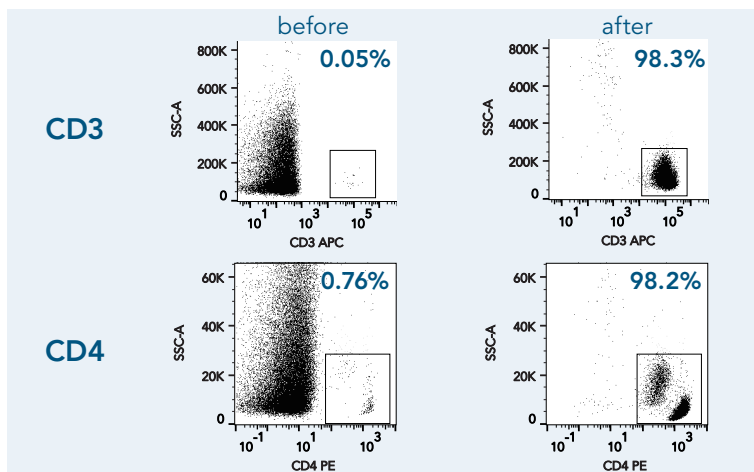
YIELD - for an efficient workflow



Get high yields

CD3⁺ and CD4⁺ cells were enriched using the Fab-TACS[®] Gravity Isolation Kit. The bar chart indicates the yield as mean values of isolated target cells from five independent samples in total. Fab-TACS[®] enables high yields in a highly reproducible manner.

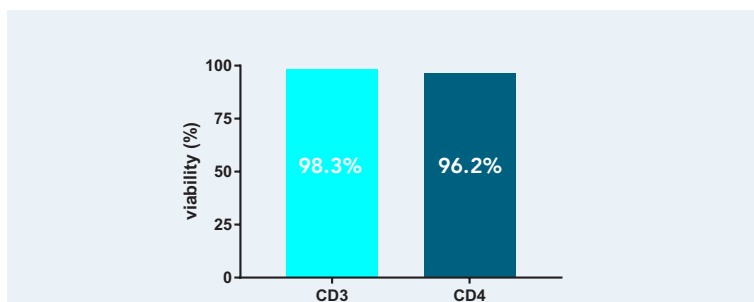
PURITY - for reliable results



Get pure cells

Isolation of CD3⁺ and CD4⁺ cells directly from whole blood. Panels on the left side show samples before isolation, panels on the right after Fab-TACS[®] isolation. Cells were stained either with CD3-APC (OKT-3) or CD4-PE (OKT-4) and analyzed by flow cytometry. Dead cells were excluded from analysis using DAPI staining. Doublet and debris discrimination were performed using different FSC/SSC signals. Fab-TACS[®] ensures highest purity independent of the starting material.

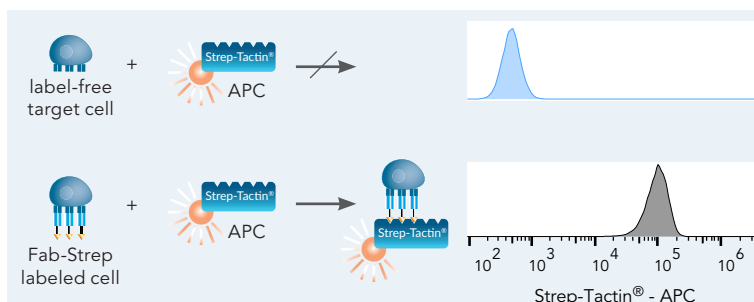
VIABILITY - for downstream experiments



Get viable cells

Viability of isolated cells is shown mean value of five independent samples in total. Fab-TACS[®] ensures highly viable and immuno-competent cells for all upcoming downstream applications.

REVERSIBILITY - for authentic cells



Get label-free cells

APC-Fluorescence after Fab-TACS[®] Gravity CD3 isolation with CD3-FITC and Strep-Tactin[®]-APC. The target cells do not bind the staining reagent since all isolation reagents dissociated from the cell. On the contrary, labeled cells bind the dye resulting in a fluorescence shift. Fab-TACS[®] ensures authentic target cells.



PRODUCT OVERVIEW

Fab-TACS® Gravity - Introductory Kit

Cat. no. 6-3299-002

- › 2x Fab-TACS® Gravity columns
- › Fab-Strep of choice
- › Buffer CI (10x)
- › Biotin Stock Solution

Available isolation kits for Fab-TACS® Gravity



Species	Product description	Size	Cat. no.
human	CD3 T cells	4x kit 10x kit	6-3201-004 6-3201-010
	CD4 T helper cells and monocytes	4x kit 10x kit	6-3202-004 6-3202-010
	CD8 Cytotoxic T cells	4x kit 10x kit	6-3203-004 6-3203-010
	CD31 T cells	4x kit 10x kit	6-3216-004 6-3216-010
mouse	CD3 T cells	4x kit 10x kit	6-3404-004 6-3404-010
	CD4 T helper cells and monocytes	4x kit 10x kit	6-3401-004 6-3401-010



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