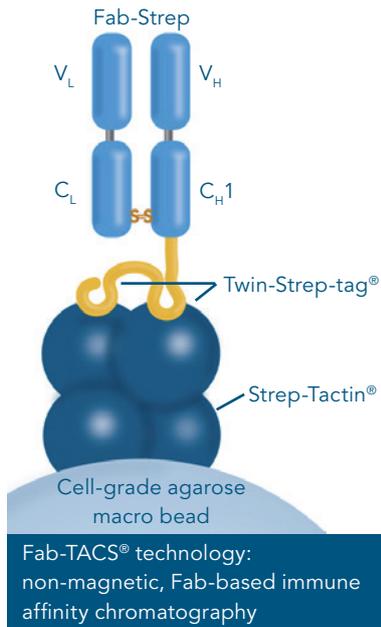




# FAB-TACS® GRAVITY

Traceless Affinity Cell Selection





### Fab-TACS<sup>®</sup> - TRACELESS AFFINITY CELL SELECTION

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

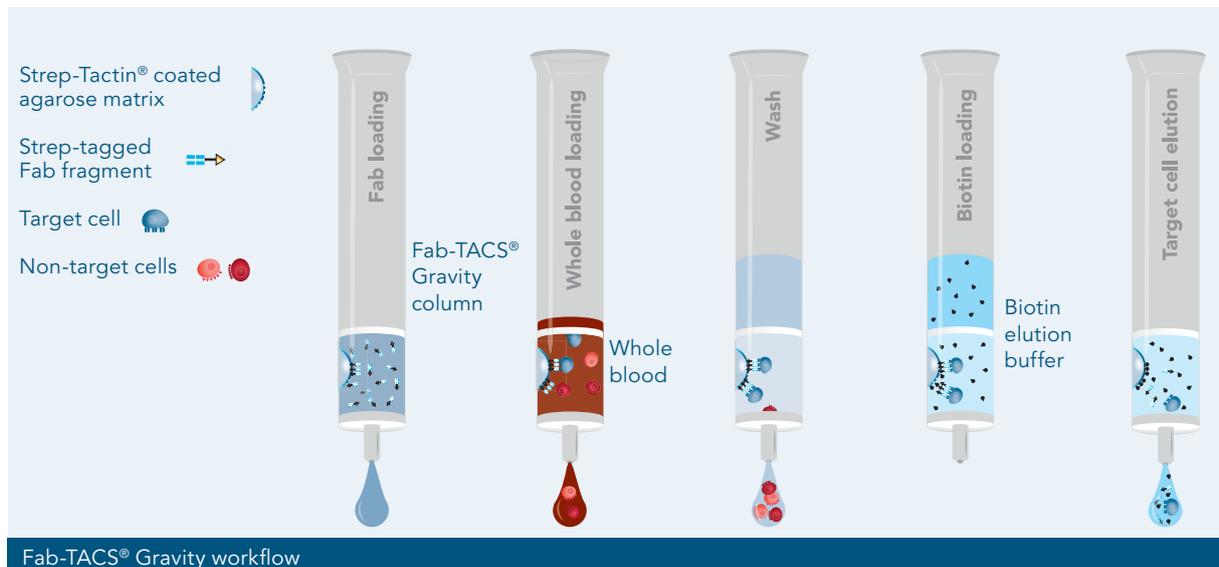
The Fab-TACS<sup>®</sup> positive selection completely resigns the use of high affinity antibodies whose usage causes unfavorable effects like strong and almost irreversible binding to cells, cell stimulation as well as receptor blockade.

- Key Features:**
- > High purity
  - > High yield
  - > High viability
  - > Label-free cells

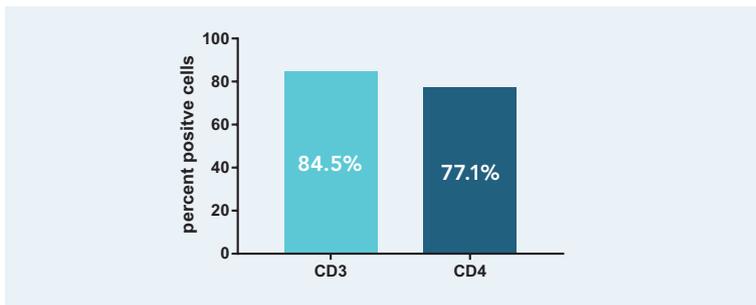
### Fab-TACS<sup>®</sup> GRAVITY

Get highly pure cell populations within a few convenient steps

The Fab-TACS<sup>®</sup> Gravity column is filled with a Strep-Tactin<sup>®</sup> 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.



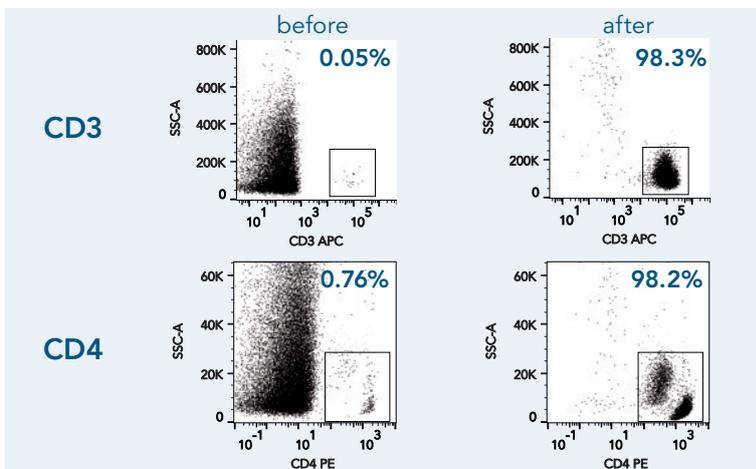
## YIELD - for an efficient workflow



### Get high yields

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

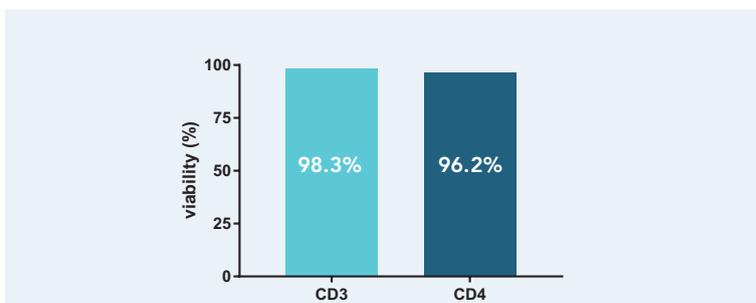
## PURITY - for reliable results



### Get pure cells

Isolation of CD3<sup>+</sup> and CD4<sup>+</sup> cells directly from whole blood. Panels on the left side show samples before isolation, panels on the right after Fab-TACS<sup>®</sup> 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<sup>®</sup> ensures highest purity independent of the starting material.

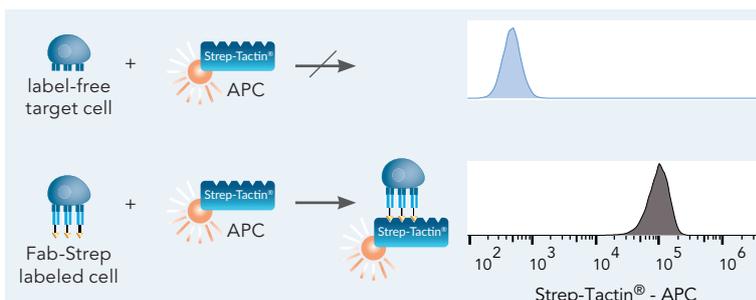
## VIABILITY - for downstream experiments



### Get viable cells

Viability of isolated cells is shown mean value of five independent samples in total. Fab-TACS<sup>®</sup> 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<sup>®</sup> Gravity CD3 isolation with CD3-FITC and Strep-Tactin<sup>®</sup>-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<sup>®</sup> ensures authentic target cells.



Fab-TACS® Gravity Isolation Kit

## PRODUCT OVERVIEW

### Fab-TACS® Gravity - Introductory Kit

Cat. no. 6-6299-002

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

### Available isolation kits for Fab-TACS® Gravity



Fab-TACS® Gravity in use

Species	Product description	Size	Cat. no.
human	<b>CD3</b> T cells	4x kit 10x kit	6-6201-004 6-6201-010
	<b>CD4</b> T helper cells and monocytes	4x kit 10x kit	6-6202-004 6-6202-010
	<b>CD8</b> Cytotoxic T cells	4x kit 10x kit	6-6203-004 6-6203-010
	<b>CD31</b> T cells	4x kit 10x kit	6-6216-004 6-6216-010
mouse	<b>CD3</b> T cells	4x kit 10x kit	6-6404-004 6-6404-010
	<b>CD4</b> T helper cells and monocytes	4x kit 10x kit	6-6401-004 6-6401-010



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 web: [www.fisherbiotec.com](http://www.fisherbiotec.com)