

HUMAN CELL ISOLATION WITH FAB STREPTAMER® MICROBEADS

From up to 1×10^7 human PBMCs



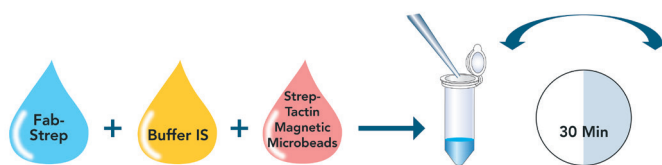
Avoid foaming, which interferes with proper bead retention on the magnet!

Optional: Wash magnetic microbeads before use to remove sodium azide.

Fab Streptamer® preparation (step 1)

4° C

1.

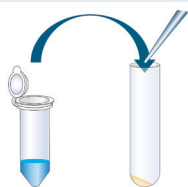


Mix 4 µl Fab-Strep with 1 µl Buffer IS. Add 15 µl Strep-Tactin® Magnetic Microbeads. Incubate under gentle constant agitation for 30 minutes or overnight.

Cell Labeling (steps 2 – 3)

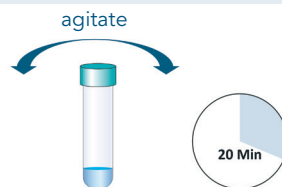
4° C

2.



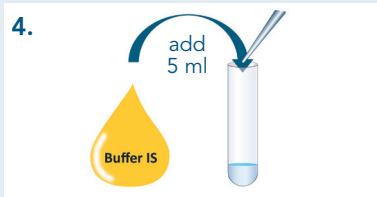
Add magnetic Fab Streptamers® from step 1 to the cells (final volume 1×10^7 cells / 50 µl).

3.

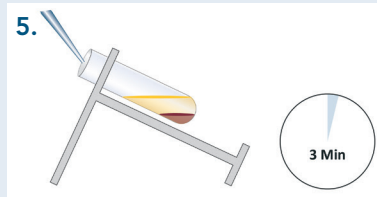


Magnetic separation (positive selection; step 4 – 7)

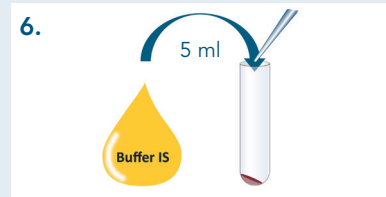
4° C



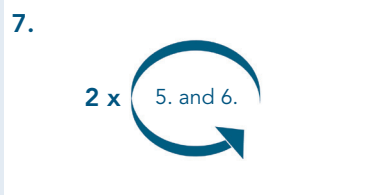
Add 5 ml of buffer IS to the cell:bead preparation from step 3.



Incubate tube on StrepMan Magnet for 3 min, isolate target cells by removing unbound cells in 5 ml supernatant.



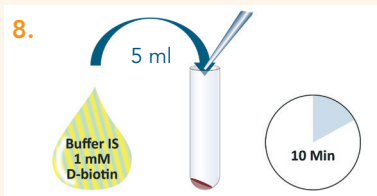
Remove the reaction tube from the StrepMan Magnet and carefully re-suspend labeled cells with 5 ml Buffer IS.



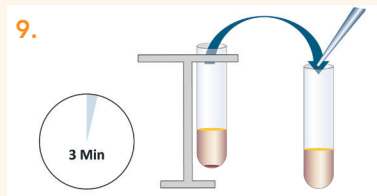
Repeat steps 5 and 6 twice, pool target cell fractions, and centrifuge cells.

Dissociation of Fab Streptamer® reagents (steps 8 – 10)

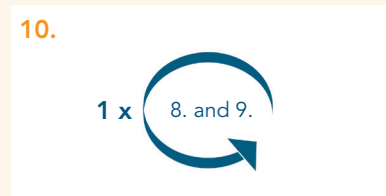
RT



Resuspend final cell fraction in 5 ml 1 mM D-biotin working solution, mix by pipetting and incubate for 10 minutes.



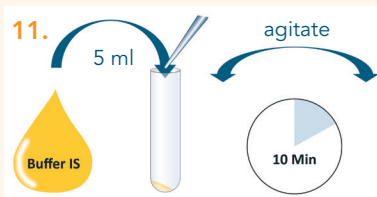
Place tube for 3 min onto StrepMan Magnet. Collect supernatant (target cell fraction).



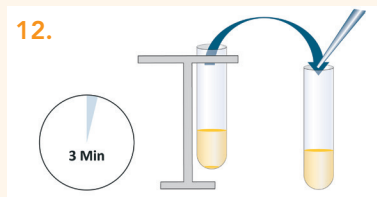
Repeat 8. and 9. once, pool target cell fractions, and centrifuge cells.

Removal of Fab-Streps (step 11 – 13)

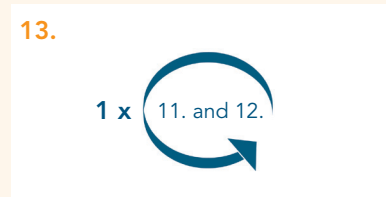
RT



Remove Fab-Streps by washing target cell fraction in 5 ml Buffer IS and incubate for 10 min (under agitation).



Place tube for 3 min onto StrepMan Magnet. Collect supernatant (target cell fraction).



Repeat 11. and 12. once, and pool target cell fractions.

To perform further positive selections please repeat the protocol from step 1.

Please find relevant Fab Streptamer® products here:

http://www.iba-lifesciences.com/products_fab_streptamers_cell_isolation_products.html

For detailed instructions please refer to the comprehensive Fab Streptamer® Microbeads manual at www.iba-lifesciences.com/technical-support.html.

Contact us for more information or technical assistance.

Fab Streptamer®