

Data Sheet

CD45RA Fab Streptamer® Isolation Kit MB, human

Cat. No.: 6-8000-208

Version: 5.2
Revision Date: 22.07.2019

Kit Components overview (for details see single data sheets enclosed)		
no.	description	amount
1.	Strep-Tactin® Magnetic Microbeads for Fab Streptamers®; (#6-5510-050)	2 vials for 5x10 ⁸ cells each
2.	CD45RA Fab-Strep human for isolation of T cells; (#6-8007-050)	2 vials for 5x10 ⁸ cells each
3.	D-Biotin stock solution for Streptamer® technology; (#6-0219-001)	2x 1 ml
4.	Streptamer® Washing Buffer (Buffer IS, 10x); (#6-5602-050)	50 ml

Background Information

The CD45RA Fab Streptamer® Isolation Kit is intended for the positive selection of CD45RA⁺ cells from human peripheral blood mononuclear cells (PBMCs). CD45RA⁺ cells are first labeled with magnetic Streptamers® and then separated from other cells by positive selection in a strong magnetic field. Afterwards, the isolated cells are liberated from all labeling reagents by the addition of D-biotin (vitamin H) and washing in order to obtain a functional, completely label-free target cell preparation.

CD45RA is expressed on naive CD4⁺ and CD8⁺ T cells. Also, it is expressed on monocytes and B cells. The expression of CD45RA differentiates naive from memory T cells. CD45 is a Tyrosine phosphatase, which has several alternative isoforms resulting from alternative splicing. CD45RA is the isoform containing the A exon but not the B and C exon.



Go digital and help the environment. Please download all up-to-date manuals, protocols and other material from <http://www.iba-lifesciences.com/download-area.html>.

For research use only

Important licensing information

This product is based on Twin-Strep-tag® and Streptamer® technologies covered by intellectual property (IP) rights and on completion of the sale IBA grants respective Limited Use Label Licenses to purchaser. IP rights and Limited Use Label Licenses for said technology are further described and identified at <http://www.iba-lifesciences.com/patents.html> or upon inquiry at info@iba-lifesciences.com or at IBA GmbH, Rudolf-Wissell-Str. 28, 37079 Goettingen, Germany. By use of this product the purchaser accepts the terms and conditions of all applicable Limited Use Label Licenses.

Trademark information

The owners of trademarks marked by “®” or “TM” are identified at <http://www.iba-lifesciences.com/patents.html>. Registered names, trademarks, etc. used in this document, even when not specifically marked as such, are not to be considered unprotected by law.

Data Sheet

Strep-Tactin® Magnetic Microbeads for Fab Streptamers®

Cat. No.: 6-5510-050

Lot No.: 5510-

Version: 9.3

Revision Date: 18.07.2019

Description	<p>Strep-Tactin® covalently linked to polysaccharide coated magnetic microbeads.</p> <p>For using Streptamer® technology, Strep-Tactin® Magnetic Microbeads (MB) have to be combined with Fab-Streps, low affinity Fab fragments containing a Strep-tag® affinity tag, to yield magnetic Fab Streptamers®.</p> <p>After isolation of the target cells on a permanent magnet (e.g. IBA's StrepMan magnet or a Dynal magnet), the magnetic Streptamers® can be mildly and rapidly dissociated from the cells by using biotin yielding fully functional isolated cells for unbiased further use.</p>
Form	<p>Suspension in Dulbecco's phosphate buffered saline (DPBS) without Ca & Mg, contains KCl and 0.1 % sodium azide. pH 7.0 – 7.5</p>
Amount	750 µl for isolation out of 5 x 10 ⁸ cells
Stability	6 months after shipping
Storage	recommended: 2-8°C Do not freeze!
Shipping	cool packs
Hazards	<p>Product is not classified as hazardous according to (EC) No 1272/2008 [CLP]. A Material Safety Data Sheet is provided.</p>

Note: Please handle under **sterile conditions**.

Please spin down briefly to collect droplets from the tube caps.



Go digital and help the environment. Please download all up-to-date manuals, protocols and other material from <http://www.iba-lifesciences.com/download-area.html>.

For research use only

Important licensing information

This product is based on Twin-Strep-tag® and Streptamer® technologies covered by intellectual property (IP) rights and on completion of the sale IBA grants respective Limited Use Label Licenses to purchaser. IP rights and Limited Use Label Licenses for said technology are further described and identified at <http://www.iba-lifesciences.com/patents.html> or upon inquiry at info@iba-lifesciences.com or at IBA GmbH, Rudolf-Wissell-Str. 28, 37079 Goettingen, Germany. By use of this product the purchaser accepts the terms and conditions of all applicable Limited Use Label Licenses.

Trademark information

The owners of trademarks marked by "®" or "TM" are identified at <http://www.iba-lifesciences.com/patents.html>. Registered names, trademarks, etc. used in this document, even when not specifically marked as such, are not to be considered unprotected by law.

Data Sheet

Recombinant CD45RA Fab-Strep human for isolation of T-cells

Cat. No.: 6-8007-050
Lot No.: 8007-

Version: 5.0
Revision Date: 22.07.2019

Description	<p>Recombinant low affinity Fab-Strep (Strep-tagged Fab fragment) for reversible CD45RA receptor specific cell labelling using the Streptamer® technology.</p> <p>The Fab-Strep molecules can be multimerized on Strep-Tactin® Magnetic Microbeads or Strep-Tactin® Magnetic Nanobeads for magnetic cell isolation, or on Strep-Tactin® PE (or Strep-Tactin® APC) for fluorescent cell staining /cell sorting via the reversible interaction between Strep-tag® and Strep-Tactin®.</p> <p>The resulting magnetic or fluorescent Fab Streptamers® can be used for magnetic isolation or fluorescent staining of CD45RA positive T-cells, respectively.</p> <p>After the target cells have been stained or isolated on a StrepMan permanent magnet (microbeads) the magnetic Fab Streptamers® can be mildly and rapidly dissociated by using biotin yielding minimally manipulated target cells for unbiased further use.</p>
Form	Suspended in sterile PBS (Phosphate buffered saline); 0.5% human serum albumin (HSA)
Amount	200 µl, for isolation out of 5 x 10 ⁸ cells
Stability	6 months after shipping (when frozen)
Storage	<p>Long term storage: recommended -25 °C to -15 °C. To avoid repeated freezing and thawing material should be aliquoted.</p> <p>Short-term storage: 2-8 °C for up to one week</p>
Shipping	dry ice
Hazards	Product is not classified as hazardous according to (EC) No 1272/2008 [CLP]. A Material Safety Data Sheet is provided.

Note: Solution is sterile filtered and does not contain any preservative.
Please handle under **sterile conditions**.



Go digital and help the environment. Please download all up-to-date manuals, protocols and other material from <http://www.iba-lifesciences.com/download-area.html>.

For research use only

Important licensing information

This product is based on Twin-Strep-tag® and Streptamer® technologies covered by intellectual property (IP) rights and on completion of the sale IBA grants respective Limited Use Label Licenses to purchaser. IP rights and Limited Use Label Licenses for said technology are further described and identified at <http://www.iba-lifesciences.com/patents.html> or upon inquiry at info@iba-lifesciences.com or at IBA GmbH, Rudolf-Wissell-Str. 28, 37079 Goettingen, Germany. By use of this product the purchaser accepts the terms and conditions of all applicable Limited Use Label Licenses.

Trademark information

The owners of trademarks marked by “®” or “TM” are identified at <http://www.iba-lifesciences.com/patents.html>. Registered names, trademarks, etc. used in this document, even when not specifically marked as such, are not to be considered unprotected by law.

Data Sheet

D-Biotin Stock Solution for Streptamer® technology

Cat. No.: 6-0219-001

Lot No.: 0219 -

Version: 4.1

Revision Date: 02.01.2017

Description	D-Biotin for preparation of removal buffer for the use in Streptamer® technology. To yield fully functional, highly pure and non-induced cells, fluorescent or magnetic Streptamers® are efficiently removed from the labeled cells by the addition of biotin.
Form	100 mM D-Biotin; 0.9 % (w/w) NaCl; pH 7.4
Amount	1 ml
Stability	12 months after shipping
Storage	recommended: -25 °C to -15 °C
Shipping	room temperature, cooled or frozen
Hazards	Product is not classified as hazardous according to (EC) No 1272/2008 [CLP]. A Material Safety Data Sheet is provided.

Note: Solution is sterile filtered and does not contain any preservative.
Please handle under **sterile conditions**. Please dilute according to manual prior to use.



Go digital and help the environment. Please download all up-to-date manuals, protocols and other material from <http://www.iba-lifesciences.com/download-area.html>.

For research use only

Important licensing information

This product is based on Twin-Strep-tag® and Streptamer® technologies covered by intellectual property (IP) rights and on completion of the sale IBA grants respective Limited Use Label Licenses to purchaser. IP rights and Limited Use Label Licenses for said technology are further described and identified at <http://www.iba-lifesciences.com/patents.html> or upon inquiry at info@iba-lifesciences.com or at IBA GmbH, Rudolf-Wissell-Str. 28, 37079 Goettingen, Germany. By use of this product the purchaser accepts the terms and conditions of all applicable Limited Use Label Licenses.

Trademark information

The owners of trademarks marked by “®” or “TM” are identified at <http://www.iba-lifesciences.com/patents.html>. Registered names, trademarks, etc. used in this document, even when not specifically marked as such, are not to be considered unprotected by law.

Data Sheet

Streptamer® Washing Buffer (10 x Buffer IS)

Cat. No.: 6-5602-050

Lot No.: 5602 -

Version: 3.1

Revision Date: 02.01.2017

Description	<p>Buffer IS for preparation of wash buffer for the use in Streptamer® technology.</p> <p>Buffer IS, 10 x concentrated, contains 5 % BSA (w/v) in 10 x Phosphate Buffered Saline (PBS); pH 7.3 – 7.5</p> <p>Salt crystals may form when stored at 2-8°C. Incubate at room temperature for 30-60 min to redissolve the crystals.</p> <p>If the buffer was shipped on dry ice and is frozen, let it thaw slowly (e.g. overnight in the refrigerator) before starting the experiments.</p>
Amount	50 ml
Stability	12 months after shipping
Storage	recommended: 2-8 °C
Shipping	room temperature or frozen
Hazards	Product is not classified as hazardous according to (EC) No 1272/2008 [CLP]. A Material Safety Data Sheet is provided.
Working solution	Dilute with 450 ml sterile water.
Note	Solution is sterile filtered and does not contain any preservatives. Please handle under sterile conditions .



Go digital and help the environment. Please download all up-to-date manuals, protocols and other material from <http://www.iba-lifesciences.com/download-area.html>.

For research use only

Important licensing information

This product is based on Twin-Strep-tag® and Streptamer® technologies covered by intellectual property (IP) rights and on completion of the sale IBA grants respective Limited Use Label Licenses to purchaser. IP rights and Limited Use Label Licenses for said technology are further described and identified at <http://www.iba-lifesciences.com/patents.html> or upon inquiry at info@iba-lifesciences.com or at IBA GmbH, Rudolf-Wissell-Str. 28, 37079 Goettingen, Germany. By use of this product the purchaser accepts the terms and conditions of all applicable Limited Use Label Licenses.

Trademark information

The owners of trademarks marked by “®” or “TM” are identified at <http://www.iba-lifesciences.com/patents.html>. Registered names, trademarks, etc. used in this document, even when not specifically marked as such, are not to be considered unprotected by law.