Fast and Easy Isolation of T Cells
**Ready•Sep•Go**

Isolate T Cells In As Little As 25 Minutes

Isolate whole T cell populations as well as various T cell subsets with high purity and recovery using the fast and easy T cell isolation products from STEMCELL Technologies. Isolate T cells directly from virtually any sample source, including human whole blood, buffy coat, leukapheresis samples, or fresh or previously frozen peripheral blood mononuclear cells (pages 7 - 9), and from mouse spleen or other tissues (pages 10 - 11).

**EasySep™**

Fast and Easy Immunomagnetic Cell Separation (page 4)

EasySep™ isolates T cells quickly and easily without the use of columns in as little as 25 minutes. With a simple pour, highly purified functional cells are immediately ready for downstream use.

**RoboSep™**

Fully Automated Immunomagnetic Cell Separation (page 4)

RoboSep™ fully automates all T cell labeling and separation steps of the EasySep™ procedure, minimizing sample handling and freeing up technician time.

**RosetteSep™**

Unique Immunodensity Cell Separation (page 5)

RosetteSep™ isolates highly purified T cells directly from human whole blood during density gradient centrifugation, reducing your T cell isolation workflow to a single step.

**FAST AND EASY.** T cells are ready in as little as 25 minutes with no columns.

**VERSATILE.** Isolate T cells directly from virtually any sample source, including whole blood and leukapheresis samples.

**GENTLE.** Column-free cell separation yields highly purified, viable T cells that are immediately ready for functional and biological studies.
Research and Applications
Fast and Easy T Cell Separation Solutions

The fast and easy column-free cell separation platforms EasySep™, RoboSep™ and RosetteSep™ are gentle on cells to preserve T cell viability, ensuring that isolated T cells are suitable for downstream functional and biological studies. Negatively enriched T cells are unlabeled by EasySep™ reagents, while positively selected T cells are labeled with small EasySep™ magnetic particles that are flow cytometry-compatible.

Infectious Disease and Vaccine Research

Isolated T cells are highly functional and have been used to study:
- The effect of HIV infection on T cell expansion1 and response2,3
- T cell stimulation for adoptive immunotherapy4
- The role of T cells in vaccine-mediated protection5

HLA and Chimerism Analysis

The HLA T cell isolation products are optimized for HLA assays and are suitable for:
- Serology-based assays
- Flow Cytometry Crossmatch (FCXM)
- Chimerism analysis

Assay Development

Large volumes of highly purified T cells can be isolated directly from leukapheresis samples and are ideal for:
- Drug development
- Immunoassay development
- Vaccine development and testing
- Companion diagnostics assay development

Want to know more?

To learn more about how STEMCELL Technologies supports T cell research and read the latest publications, please visit us at www.stemcell.com/tcells.
**EasySep™** is a quick and easy way to get highly purified T cells from whole blood, PBMCs, buffy coat, leukapheresis samples, and mouse spleen or other tissue samples. Cells are cross-linked to EasySep™ magnetic particles using the Tetrameric Antibody Complex (TAC) technology, and then separated from unwanted cells with an EasySep™ magnet. Isolated T cells are immediately ready for downstream applications.

### EasySep™ Human CD4⁺ T Cell Enrichment Procedure

1. **Add EasySep™ selection cocktail to single cell suspension**
2. **Incubate 10 minutes**
3. **Add EasySep™ magnetic particles**
4. **Incubate 5 minutes**
5. **Place tube in magnet for 5 minutes**
6. **Pour off supernatant containing untouched CD4⁺ T cells into a new tube**

**FACs Histogram Results Using EasySep™ Human CD4⁺ T Cell Enrichment Kit**

- **Start:** 18% CD4⁺ cells
- **Selected:** 97% CD4⁺ cells

Starting with previously frozen mononuclear cells, the CD4⁺ cell content of the enriched fraction typically ranges from 92 - 97%.

**FIGURE 1.** Tetrameric Antibody Complex (TAC) crosslinking a cell to a dextran-coated magnetic particle.

---

**RoboSep™**

Streamline your T cell separations using RoboSep™, the fully automated cell separator. By performing all EasySep™ cell labeling and separation steps, RoboSep™ maintains the speed and simplicity of EasySep™ while offering walk-away automation, enabling the high-throughput, versatile isolation of highly purified cells. Minimize sample handling and eliminate cross-contamination while isolating T cells with just 5 minutes of “hands-on” technician time.
RosetteSep™ is a fast and easy immunodensity procedure for the isolation of untouched T cells directly from whole blood. By crosslinking unwanted cells to red blood cells present in the sample, RosetteSep™ eliminates the need for a separate magnetic separation step because cells are purified during standard density gradient centrifugation. This approach significantly reduces handling time and maximizes convenience.

**RosetteSep™ Human T Cell Enrichment Procedure**

1. **Label**
2. **Add RosetteSep™ antibody cocktail**
3. **Layer over density gradient medium**
4. **Incubate 20 minutes at room temperature**
5. **Spin**
6. **Collect**

- **Whole blood**
- **Density gradient medium**
- **Plasma**
- **Enriched T cells**
- **Red blood cells and unwanted cells (rosetted)**
- **Highly purified T cells are left untouched**

**FAST AND EASY.** Column-free T cell isolation during standard density centrifugation.

**UNTouched CELLS.** T cells are unlabeled and ready for immediate use.

**FLEXIBLE AND SAFE.** Process small or large volumes and multiple samples simultaneously with minimal sample handling.

Video:
**RosetteSep™ Introduction**
www.stemcell.com/RosetteSepVideo
**Equipment**

**EasySep™ Magnet**

The EasySep™ Magnet is designed to hold one 5 mL polystyrene tube to isolate up to 2.5 x 10^8 cells (or up to 5 x 10^8 cells when isolating rare cells [e.g. CD34+]) per separation. Catalog #18000

**The Big Easy EasySep™ Magnet**

The Big Easy EasySep™ Magnet is designed to hold one 14 mL polystyrene tube to isolate up to 10^9 cells (or up to 2 x 10^9 cells when isolating rare cells [e.g. CD34+]) per separation. Catalog #18002

**Easy 50 EasySep™ Magnet**

The Easy 50 EasySep™ Magnet is designed to hold one 50 mL conical tube to isolate up to 4 x 10^9 cells by negative selection from whole blood, leukapheresis products or mouse splenocytes (or 2 x 10^9 cells from PBMC) per separation. Catalog #18003

**EasyPlate™ EasySep™ Magnet**

The EasyPlate™ EasySep™ Magnet, which is designed to hold a standard 96-well plate, enables high-throughput cell isolation from small sample sizes. Catalog #18102

**EasySep™ Multistand**

Separate up to 4 samples at once using the EasySep™ Multistand. The multistand is designed to hold up to 4 EasySep™ Magnets or 4 The Big Easy EasySep™ Magnets. Catalog #18010

---

**RoboSep™ System is Supplied With:**

- RoboSep™ Carousel
- Hydraulic Fluid Bottle
- One-Year Warranty
- RoboSep™ Accessory Kit
  - 4 "The Big Easy” EasySep™ Magnets
  - 2 Boxes of RoboSep™ Filter Tip Racks (16 Filter Tip Racks in total)
  - RoboSep™ Buffer (250 mL)
  - RoboSep™ Service Rack
  - USB Keyboard, Mouse, Memory Stick
  - Magnet Shields
  - Tip Head Polishing Compound
  - User Manual
  - RoboSep™ Timer
  - Quick Start Sheet

**RoboSep™ & Accessories**

<table>
<thead>
<tr>
<th>PRODUCT NAME</th>
<th>CATALOG #</th>
</tr>
</thead>
<tbody>
<tr>
<td>RoboSep™</td>
<td>20000</td>
</tr>
<tr>
<td>RoboSep™ Warranty</td>
<td>20200</td>
</tr>
<tr>
<td>RoboSep™ Warranty with Preventative Maintenance</td>
<td>20202</td>
</tr>
<tr>
<td>RoboSep™ Preventative Maintenance (No Warranty)</td>
<td>20203</td>
</tr>
<tr>
<td>RoboSep™ Preventative Maintenance (Active Warranty)</td>
<td>20209</td>
</tr>
<tr>
<td>RoboSep™ Service Rack</td>
<td>20101</td>
</tr>
<tr>
<td>Hydraulic Fluid Bottle</td>
<td>20102</td>
</tr>
<tr>
<td>RoboSep™ Buffer (250 mL)</td>
<td>20104</td>
</tr>
<tr>
<td>RoboSep™ Buffer 5X Concentrate (250 mL)</td>
<td>20124</td>
</tr>
<tr>
<td>RoboSep™ Filter Tip Racks (1 box of 8 racks)</td>
<td>20125</td>
</tr>
<tr>
<td>EasySep™ RBC Lysis Buffer 10X Concentrate (100 mL)</td>
<td>20120</td>
</tr>
<tr>
<td>RoboSep™ Tip Head Polishing Compound (7 mL)</td>
<td>20119</td>
</tr>
</tbody>
</table>

1. RoboSep™ Buffer and 1 - 2 boxes of RoboSep™ Filter Tip Racks are included with every purchase of a RoboSep™ Reagent Kit.
2. 10 mL of 10X RBC Lysis Buffer is included with every purchase of an EasySep™ or RoboSep™ Whole Blood Selection Kit (see pages 8 - 9).

**Technical Specifications:**

**Dimensions:**
- Height with lid: 56 cm (21 ½”)
- Width: 71 cm (27 ¾”)
- Depth: 39 cm (15 ¼”)
- Weight: 26 kg (57 lb)

**Power Requirements:**
- 50/60 Hz, AC 100-240V
- Connections: RJ-45 10/100 Ethernet port, 2 USB ports

**Conditions for Operation:**
- Temperature: 10 - 30°C (50 - 86°F). RoboSep™ is not specified for use in a cold room (4°C, 39°F)
- Humidity 20 - 85% (non-condensing)
Human T Cell Isolation Kits

**CD8⁺ T Cell Subsets**
- Terminal Effector
- Central Memory
- Effector Memory
- Naïve

**CD4⁺ T Cell Subsets**
- Terminal Effector
- Central Memory
- Effector Memory
- Naïve

**Memory CD8⁺ T Cells**
- #19159

**Memory CD4⁺ T Cells**
- #19157

**Regulatory T Cells**
- Tₘ₁
- Tₘ₂
- Tₘ₁₇
- #19162

**RosetteSep™ Human T Cell Products**

<table>
<thead>
<tr>
<th>PHENOTYPE</th>
<th>TISSUE</th>
<th>PRODUCT</th>
<th>TYPICAL PERFORMANCE DATA</th>
<th>CATALOG #</th>
</tr>
</thead>
<tbody>
<tr>
<td>T Cells</td>
<td>WB, BC</td>
<td>RosetteSep™ Human T Cell Enrichment Cocktail</td>
<td>90 - 97</td>
<td>15021/15061</td>
</tr>
<tr>
<td></td>
<td>WB, BC</td>
<td>RosetteSep™ HLA T Cell Enrichment Cocktail</td>
<td>90 - 97</td>
<td>15061HLA/15081HLA</td>
</tr>
<tr>
<td>CD4⁺</td>
<td>WB, BC</td>
<td>RosetteSep™ Human CD4⁺ T Cell Enrichment Cocktail</td>
<td>89 - 99</td>
<td>15022/15062</td>
</tr>
<tr>
<td>CD8⁺</td>
<td>WB, BC</td>
<td>RosetteSep™ Human CD8⁺ T Cell Enrichment Cocktail</td>
<td>81 - 95</td>
<td>15023/15063</td>
</tr>
<tr>
<td>CD3⁺-Depleted</td>
<td>WB, BC</td>
<td>RosetteSep™ Human CD3 Depletion Cocktail</td>
<td>3.0 Log Depletion</td>
<td>15621/15661</td>
</tr>
<tr>
<td>CD4⁺-Depleted</td>
<td>WB, BC</td>
<td>RosetteSep™ Human CD4 Depletion Cocktail</td>
<td>2.0 Log Depletion</td>
<td>15622/15662</td>
</tr>
<tr>
<td>CD8⁺-Depleted</td>
<td>WB, BC</td>
<td>RosetteSep™ Human CD8 Depletion Cocktail</td>
<td>2.0 Log Depletion</td>
<td>15623/15663</td>
</tr>
</tbody>
</table>

Each cocktail contains enough reagents to label either 40 mL or 200 mL of whole blood, except the HLA cocktails, which can label 250 mL or 1000 mL of whole blood. Depletion cocktails can be added to a standard RosetteSep™ cocktail, if not already present.

1. WB - whole blood, BC - buffy coat.

**FIGURE 2.** Human T cell subsets and corresponding STEMCELL isolation kits. Values below the T cell types indicate catalog numbers of appropriate cell isolation products. Please see pages 7 - 9 for details. EasySep™ magnet and RoboSep™ catalog numbers can be found on page 6.
### Human T Cell Negative Selection

<table>
<thead>
<tr>
<th>PHENOTYPE</th>
<th>TISSUE</th>
<th>PRODUCT</th>
<th>TYPICAL PERFORMANCE DATA</th>
<th>CATALOG #$^3$</th>
</tr>
</thead>
<tbody>
<tr>
<td>T Cells</td>
<td>PBMC</td>
<td>EasySep™/RoboSep™ Human T Cell Enrichment Kit</td>
<td>95 - 99</td>
<td>19051/19051RF</td>
</tr>
<tr>
<td>CD4$^+$</td>
<td>PBMC</td>
<td>EasySep™/RoboSep™ Human CD4$^+$ T Cell Enrichment Kit</td>
<td>92 - 97</td>
<td>19052/19052RF</td>
</tr>
<tr>
<td>Naive CD4$^+$</td>
<td>PBMC</td>
<td>EasySep™/RoboSep™ Human Naive CD4$^+$ T Cell Enrichment Kit</td>
<td>91 - 95</td>
<td>19155/19155RF</td>
</tr>
<tr>
<td>Memory CD4$^+$</td>
<td>PBMC</td>
<td>EasySep™/RoboSep™ Human Memory CD4$^+$ T Cell Enrichment Kit</td>
<td>86 - 98</td>
<td>19157/19157RF</td>
</tr>
<tr>
<td>CD8$^-$</td>
<td>PBMC</td>
<td>EasySep™/RoboSep™ Human CD8$^-$ T Cell Enrichment Kit</td>
<td>84 - 89</td>
<td>19053/19053RF</td>
</tr>
<tr>
<td>Naive CD8$^+$</td>
<td>PBMC</td>
<td>EasySep™/RoboSep™ Human Naive CD8$^-$ T Cell Enrichment Kit</td>
<td>85 - 92</td>
<td>19158/19158RF</td>
</tr>
<tr>
<td>Memory CD8$^+$</td>
<td>PBMC</td>
<td>EasySep™/RoboSep™ Human Memory CD8$^-$ T Cell Enrichment Kit</td>
<td>72 - 92</td>
<td>19159/19159RF</td>
</tr>
<tr>
<td>Isolate any human cell type by negative selection</td>
<td></td>
<td>EasySep™/RoboSep™ Human Custom Enrichment Kit</td>
<td>-</td>
<td>19309/19309RF</td>
</tr>
</tbody>
</table>

### Human T Cell Positive Selection

<table>
<thead>
<tr>
<th>PHENOTYPE</th>
<th>TISSUE</th>
<th>PRODUCT</th>
<th>TYPICAL PERFORMANCE DATA</th>
<th>CATALOG #$^3$</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD2$^+$</td>
<td>PBMC</td>
<td>EasySep™/RoboSep™ Human CD2 Positive Selection Kit</td>
<td>86 - 98</td>
<td>18657/18657RF</td>
</tr>
<tr>
<td></td>
<td>WB</td>
<td>EasySep™/RoboSep™ Human Whole Blood CD2 Positive Selection Kit</td>
<td>96 - 100</td>
<td>18687/18687RF</td>
</tr>
<tr>
<td>CD3$^+$</td>
<td>PBMC</td>
<td>EasySep™/RoboSep™ Human CD3 Positive Selection Kit</td>
<td>99 - 100</td>
<td>18051/18051RF</td>
</tr>
<tr>
<td></td>
<td>WB</td>
<td>EasySep™/RoboSep™ Whole Blood CD3 Positive Selection Kit</td>
<td>98 - 100</td>
<td>18081/18081RF</td>
</tr>
<tr>
<td>CD4$^+$</td>
<td>PBMC</td>
<td>EasySep™/RoboSep™ Human CD4 Positive Selection Kit</td>
<td>97 - 100</td>
<td>18052/18052RF</td>
</tr>
<tr>
<td></td>
<td>WB</td>
<td>EasySep™/RoboSep™ Whole Blood CD4 Positive Selection Kit</td>
<td>97 - 100</td>
<td>18082/18082RF</td>
</tr>
<tr>
<td>Th17</td>
<td>PBMC</td>
<td>EasySep™/RoboSep™ Human Th17 Cell Enrichment Kit</td>
<td>85 - 94</td>
<td>18162/18162RF</td>
</tr>
<tr>
<td>CD8$^+$</td>
<td>PBMC</td>
<td>EasySep™/RoboSep™ Human CD8 Positive Selection Kit</td>
<td>94 - 100</td>
<td>18053/18053RF</td>
</tr>
<tr>
<td></td>
<td>WB</td>
<td>EasySep™/RoboSep™ Whole Blood CD8 Positive Selection Kit</td>
<td>97 - 100</td>
<td>18083/18083RF</td>
</tr>
<tr>
<td>CD25$^+$</td>
<td>PBMC</td>
<td>EasySep™/RoboSep™ Human Pan-CD25 Positive Selection and Depletion Kit</td>
<td>90 - 96</td>
<td>18251/18251RF</td>
</tr>
<tr>
<td>Isolate any human cell type by positive selection</td>
<td></td>
<td>EasySep™/RoboSep™ Human Custom Selection Kit</td>
<td>-</td>
<td>18309/18309RF</td>
</tr>
</tbody>
</table>

Each kit contains enough reagents to select desired cells from $10^9$ total cells. Kits contain Fc receptor blocker when necessary to prevent non-specific binding.

1. PBMC - peripheral blood mononuclear cells; WB - whole blood; BC - buffy coat.
2. Combined purity data of EasySep™ and RoboSep™ kits (when available).
3. RoboSep™ Reagent Kits (RF) contain an EasySep™ Selection Kit with 1-2 boxes of RoboSep™ Filter Tip Racks and a 250 mL bottle of RoboSep™ Buffer.
Human Regulatory T Cell Isolation

<table>
<thead>
<tr>
<th>PHENOTYPE</th>
<th>TISSUE</th>
<th>PRODUCT</th>
<th>TYPICAL PERFORMANCE DATA</th>
<th>CATALOG #*</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD4⁻ CD25⁺</td>
<td>PBMC</td>
<td>EasySep™/RoboSep™ Human CD4⁻CD25⁺ T Cell Isolation Kit</td>
<td>61 - 83</td>
<td>18062/18062RF</td>
</tr>
<tr>
<td></td>
<td>WB, BC</td>
<td>Complete Kit for Human CD4⁻CD25⁺ T Cells</td>
<td>89 - 99</td>
<td>15862/15862RF</td>
</tr>
<tr>
<td>CD4⁻ CD127⁻⁺⁻ CD25⁺</td>
<td>PBMC</td>
<td>EasySep™/RoboSep™ Human CD4⁻CD127⁻⁺⁻ CD25⁺ T Cell Enrichment Kit</td>
<td>92 - 96</td>
<td>19231/19231RF</td>
</tr>
<tr>
<td></td>
<td>WB, BC</td>
<td>Complete Kit for Human CD4⁻CD127⁻⁺⁻ CD25⁺ Regulatory T Cells</td>
<td>75 - 98 (65 - 91 CD25⁻FOXP3⁻)</td>
<td>15861/15861RF</td>
</tr>
<tr>
<td>CD4⁻ CD127⁻⁺⁻ CD49⁻</td>
<td>PBMC</td>
<td>EasySep™/RoboSep™ Human CD4⁻CD127⁻⁺⁻ CD49⁻ CD25⁺ Regulatory T Cell Enrichment Kit</td>
<td>57 - 87 CD25⁻FOXP3⁻</td>
<td>19232/19232RF</td>
</tr>
<tr>
<td>CD25⁺⁺⁺</td>
<td>CD4⁻ T Cells⁺⁺⁺</td>
<td>EasySep™ Human CD25 Positive Selection Kit</td>
<td>90 - 98</td>
<td>18231</td>
</tr>
</tbody>
</table>

T Cell Kits for HLA Analysis

<table>
<thead>
<tr>
<th>PHENOTYPE</th>
<th>TISSUE</th>
<th>PRODUCT</th>
<th>TYPICAL PERFORMANCE DATA</th>
<th>CATALOG #*</th>
</tr>
</thead>
<tbody>
<tr>
<td>T Cells</td>
<td>PBMC</td>
<td>EasySep™/RoboSep™ HLA T Cell Enrichment Kit</td>
<td>95 - 99</td>
<td>19051HLA/ 19051HLARF</td>
</tr>
<tr>
<td></td>
<td>WB</td>
<td>EasySep™/RoboSep™ HLA Whole Blood T Cell Enrichment Kit</td>
<td>93 - 98</td>
<td>19951HLA/ 19951HLARF</td>
</tr>
<tr>
<td>CD2⁺⁺⁺</td>
<td>PBMC</td>
<td>EasySep™/RoboSep™ HLA CD2 Positive Selection Kit</td>
<td>86 - 98</td>
<td>18657HLA/ 18657HLARF</td>
</tr>
<tr>
<td></td>
<td>WB</td>
<td>EasySep™/RoboSep™ HLA Whole Blood CD2 Positive Selection Kit</td>
<td>96 - 100</td>
<td>18687HLA/ 18687HLARF</td>
</tr>
<tr>
<td>CD3⁺⁺⁺</td>
<td>PBMC</td>
<td>EasySep™/RoboSep™ HLA CD3 Positive Selection Kit</td>
<td>95 - 100</td>
<td>18051HLA/ 18051HLARF</td>
</tr>
<tr>
<td></td>
<td>WB</td>
<td>EasySep™/RoboSep™ HLA Whole Blood CD3 Positive Selection Kit</td>
<td>93 - 99</td>
<td>18081HLA/ 18081HLARF</td>
</tr>
</tbody>
</table>

Each kit for PBMC contains enough reagents to select desired cells from 10⁹ total cells, except the CD4⁻ CD127⁻⁺⁻ CD49⁺ CD25⁺ Regulatory T Cell Enrichment Kit, which can process up to 2 x 10⁹ cells. Each whole blood kit contains enough reagents to label 200 mL of whole blood, except the HLA CD2 and CD3 Positive Selection Kits, which can label 60 mL of whole blood.

1. WB - whole blood; PBMC - peripheral blood mononuclear cells; BC - buffy coat.
2. Combined manual EasySep™ and RoboSep™ purity data (when available).
3. RoboSep™ Reagent Kits (RF) contain an EasySep™ Selection Kit with RoboSep™ Buffer and 1-2 boxes of RoboSep™ Filter Tip Racks.
4. RosetteSep™ enriched (catalog #15062).
Mouse T Cell Isolation Kits

### Mouse T Cell Negative Selection

<table>
<thead>
<tr>
<th>PHENOTYPE</th>
<th>TISSUE</th>
<th>PRODUCT</th>
<th>TYPICAL PERFORMANCE DATA</th>
<th>CATALOG #³</th>
</tr>
</thead>
<tbody>
<tr>
<td>T cells</td>
<td>Spleen</td>
<td>EasySep™/RoboSep™ Mouse T Cell Enrichment Kit</td>
<td>95 - 99</td>
<td>19751/19751RF</td>
</tr>
<tr>
<td>CD4⁺</td>
<td>Spleen</td>
<td>EasySep™/RoboSep™ Mouse CD4⁺ T Cell Enrichment Kit</td>
<td>89 - 96</td>
<td>19752/19752RF</td>
</tr>
<tr>
<td>CD8⁺</td>
<td>Spleen</td>
<td>EasySep™/RoboSep™ Mouse CD8⁺ T Cell Enrichment Kit</td>
<td>86 - 94</td>
<td>19753/19753RF</td>
</tr>
<tr>
<td>Isolate any mouse cell type by negative selection</td>
<td></td>
<td>EasySep™ Mouse Custom Enrichment Kit</td>
<td>-</td>
<td>19709</td>
</tr>
</tbody>
</table>

### Mouse T Cell Positive Selection

<table>
<thead>
<tr>
<th>PHENOTYPE</th>
<th>TISSUE</th>
<th>PRODUCT</th>
<th>TYPICAL PERFORMANCE DATA</th>
<th>CATALOG #³</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD4⁺</td>
<td>Spleen</td>
<td>EasySep™/RoboSep™ Mouse CD4 Positive Selection Kit</td>
<td>94 - 99</td>
<td>18752/18752RF</td>
</tr>
<tr>
<td>CD4⁺ CD25⁺</td>
<td>Spleen</td>
<td>EasySep™ Mouse CD4 CD25⁺ Regulatory T Cell Isolation Kit</td>
<td>85 - 97</td>
<td>19782/19792</td>
</tr>
<tr>
<td>CD8a</td>
<td>Spleen</td>
<td>EasySep™/RoboSep™ Mouse CD8a Positive Selection Kit</td>
<td>90 - 98</td>
<td>18753/18753RF</td>
</tr>
<tr>
<td>CD90.2 (Thy 1.2)</td>
<td>Spleen</td>
<td>EasySep™/RoboSep™ Mouse CD90.2 (Thy 1.2) Positive Selection Kit</td>
<td>96 - 99</td>
<td>18751/18751RF</td>
</tr>
<tr>
<td>Isolate any mouse cell type by positive selection</td>
<td></td>
<td>EasySep™ Mouse Custom Selection Kit</td>
<td>-</td>
<td>18709</td>
</tr>
</tbody>
</table>

Mouse Negative Selection Kits contain enough reagents to enrich desired cells from 10⁹ total cells. Kits contain mouse Fc receptor blocker when necessary to prevent non-specific binding. Mouse Positive Selection Kits contain enough reagents to select desired cells from 2 x 10⁹ total cells, with the exception of the CD4⁺ CD25⁺ Regulatory T Cell Kit, which contains enough reagents to select desired cells from 10⁹ total cells.

1. Combined purity data of EasySep™ and RoboSep™ kits (when available).
2. RoboSep™ Reagent Kits (RF) contain an EasySep™ Selection Kit with 1-2 boxes of RoboSep™ Filter Tip Racks and a 250 mL bottle of RoboSep™ Buffer.

---

FIGURE 3. Mouse T cell subsets and corresponding STEMCELL isolation kits. Values below each cell type indicate catalog numbers of appropriate isolation kits. Please see page 6 for EasySep™ magnet and RoboSep™ catalog numbers.
Custom T Cell Isolation Kits

With many years of cell separation expertise, an extensive range of antibodies and a variety of cell isolation methods, STEMCELL Technologies scientists can create tailor-made products to isolate desired cell types. This is particularly useful to researchers working with rare cell types, difficult tissues, non-standard species or any other special applications.

Design Your Own Custom Kit

Choose your desired cell type or the cell surface antigens you would like to target and let STEMCELL design a kit for you.

Modify Existing Kits

Antibodies can be added or removed from any of STEMCELL’s kits to isolate your desired cell type.

Use Your Own Labeled Antibody

Isolate cells using conjugated antibodies with EasySep™ PE, Biotin, FITC or APC Selection Kits.

Use Any Mouse IgG1 Antibody

Isolate cells using any mouse IgG1 antibody with the EasySep™ “Do-It-Yourself” Selection Kit.

Researchers Have Used Custom Cocktails to Isolate:

- Human NKT cells
- Human memory T cells (CD3+/CD45RO+)
- Human resting memory T cells
- Mouse naïve CD4+ T cells (CD4+/CD62L+)
- Mouse γδ T cells
- Non-human primate regulatory T cells (CD4+/CD25+)

References

5. X. Guo et al., Vaccine. 29, 772 (2011)