



ITK DIAGNOSTICS BV



pluriSelect

We are sieving cells

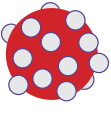
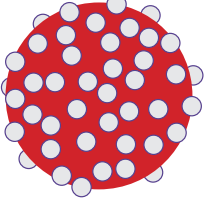
Product Catalog 2015



pluriBead[®] Particles

pluriBead[®] - bead sizes

pluriBead[®] catcher particles are available in two different sizes. To find the appropriate particle size, please consider the following data.

| Specification | S-pluriBead [®] | M-pluriBead [®] |
|-------------------------------------|---|---|
| Illustration |  |  |
| Size | 30 µm | 60 µm |
| Maximum target cells per separation | 10 ⁷ | 5x10 ⁷ |
| Recommended application | small number of targets in large sample volume and circulating tumor cells (CTC) | large number of targets in a sample (e. g. buffy coat) |
| Sample material | whole blood, tissue, PBMC, cell culture | buffy coat, whole blood, tissue, PBMC, cell culture |
| Minimum sample volume | 200 µl | 500 µl |

Further Information:

The surface of the beads is modified with antibodies that recognize specific structures on the cell surface. The beads are larger than the cells and enlarge these artificially. This enlargement allows for an easy separation of bead-bound targets through sieves via different separation strategies. Moreover, the particle size prevents uptake by endocytosis.

Target cells can be gently detached from the catcher particles with pluriSelect's detachment buffer.

Pretreatment of the sample, such as the production of a mononuclear cell fraction (PBMC - peripheral blood mononuclear cells) by a density gradient / density centrifugation, depletion of erythrocytes (e.g. erythrolisis) or target concentration is not required.

pluriBead[®] Suspension Human

| Target cells | | S-pluriBead [®] | M-pluriBead [®] |
|-------------------|---|--|--|
| anti-human | | 2 ml S-pluriBead [®] suspension for 5 ⁸ target cells | 2 ml M-pluriBead [®] suspension for 10 ⁸ target cells. Recommended for buffy coat or cell culture. |
| CD2 | T cells, NK cell subset | 19-00200-10 | 19-00200-20 |
| CD3 | T cells, thymocytes | 19-00300-10 | 19-00300-20 |
| CD4 | Helper T cells | 19-00400-10 | 19-00400-20 |
| CD5 | T cells, B cells subset | 19-00500-10 | 19-00500-20 |
| CD7 | T cells, NK cells, pre-B cells | 19-00700-10 | 19-00700-20 |
| CD8 | Cytotoxic T cells, | 19-00800-10 | 19-00800-20 |
| CD9 | Platelets, granulocytes | 19-00900-10 | 19-00900-20 |
| CD11a | Leukocytes | 19-011a0-10 | 19-011a0-20 |
| CD11b | Granulocytes, monocytes | 19-011b0-10 | 19-011b0-20 |
| CD14 | Monocytes | 19-01400-10 | 19-01400-20 |
| CD15 | Granulocytes | 19-01500-10 | 19-01500-20 |
| CD16 | Neutrophils, granulocytes | 19-01600-10 | 19-01600-20 |
| CD19 | B cells | 19-01900-10 | 19-01900-20 |
| CD21 | B cells, T cell subset | 19-02100-10 | 19-02100-20 |
| CD31 | Platelets, endothelial cells | 19-03100-10 | 19-03100-20 |
| CD43 | T cells, NK cells, granulocytes | 19-04300-10 | 19-04300-20 |
| CD44 | Most tissue cells, | 19-04400-10 | 19-04400-20 |
| CD45 | Leukocytes | 19-04500-10 | 19-04500-20 |
| CD55 | Hematopoietic cells | 19-05500-10 | 19-05500-20 |
| CD95 | Apoptotic cells | 19-09500-10 | 19-09500-20 |
| CD117 (c-kit) | Hematopoietic progenitor cells | 19-11700-10 | 19-11700-20 |
| CD138 | Plasma cells | 19-13800-10 | 19-13800-20 |
| CD235a | Erythrocytes (RBC) | 19-235a0-10 | 19-235a0-20 |
| CD271 | Schwann cells, mesenchymal stem/stromal cells | 19-27100-10 | 19-27100-20 |
| CD326 (EpCam) | Epithelial Cells, circulating tumor cells | 19-32600-10 | 19-32600-20 |

pluriBead® Suspension Veterinary

| Target cells | | S-pluriBead® | M-pluriBead® |
|-------------------|--|---|--|
| anti-mouse | | 2 ml S-pluriBead® suspension for 5 ⁸ target cells. | 2 ml M-pluriBead® suspension for 10 ⁸ target cells. Recommended for buffy coat or cell culture. |
| CD4 | Helper T cells | 29-00400-10 | 29-00400-20 |
| CD8 | Cytotoxic T cells | 29-00800-10 | 29-00800-20 |
| CD11b | Monocytes, macrophages, NK cells, granulocytes | 29-011b0-10 | 29-011b0-20 |
| CD11c | Dendritic cells, activated T cells | 29-011c0-10 | 29-011c0-20 |
| CD14 | Monocytes | 29-01400-10 | 29-01400-20 |
| CD19 | B cells | 29-01900-10 | 29-01900-20 |
| CD31 | Platelets, endothelial cells | 29-03100-10 | 29-03100-20 |
| CD45 | Leukocytes | 29-04500-10 | 29-04500-20 |
| F4/80 | Macrophages | 29-F4800-10 | 29-F4800-20 |
| Ly6G | Granulocytes | 29-Ly6G0-10 | 29-LY6G0-20 |
| anti-rat | | | |
| CD4 | Helper T cells | 22-00400-10 | 22-00400-20 |
| CD8b | Cytotoxic T cells | 22-008b0-10 | 22-008b0-20 |
| CD11b | Granulocytes, macrophages | 22-011b0-10 | 22-011b0-20 |
| CD45 | Leukocytes | 22-04500-10 | 22-04500-20 |
| RAT-TCR α/β | T cells | 22-TCRAB-10 | 22-TCRAB-20 |

pluriBead® Suspension Veterinary

| Target cells | | S-pluriBead® | M-pluriBead® |
|---------------------------|--|---|--|
| anti-porcine (pig) | | 2 ml S-pluriBead® suspension for 5 ⁸ target cells. | 2 ml M-pluriBead® suspension for 10 ⁸ target cells. Recommended for buffy coat or cell culture. |
| CD11b | Granulocytes, macrophages | 23-011b0-10 | 23-011b0-20 |
| CD14 | Monocytes | 23-01400-10 | 23-01400-20 |
| CD21 | B cells | 23-02100-10 | 23-02100-20 |
| CD29 | T cells, platelets endothelial cells | 23-02900-10 | 23-02900-20 |
| CD44 | Most tissue cells, B cells. monocytes, macrophages | 23-04400-10 | 23-04400-20 |
| CD47 | Leukocytes, platelets, erythrocytes | 23-04700-10 | 23-04700-20 |
| CD62L | B cells, T cells, monocytes, granulocytes | 23-062L0-10 | 23-062L0-20 |
| CD90 | NK cells thymocytes | 23-09000-10 | 23-09000-20 |
| RBC | Erythrocytes, red blood cells | 23-RBC00-10 | 23-RBC00-20 |
| HLA-DR+DP | APC (antigen-presenting cells) | 23-HLARP-10 | 23-HLARP-20 |
| anti-ovine (sheep) | | | |
| CD29 | T cells, platelets, endothelial cells | 24-02900-10 | 24-02900-20 |
| CD41 | Platelets, megakaryocytes | 24-04100-10 | 24-04100-20 |
| CD44 | Most tissue cells, B cells, monocytes, macrophages | 24-04400-10 | 24-04400-20 |
| CD45 | Leukocytes, hematopoietic stem cells | 24-04500-10 | 24-04500-20 |
| CD47 | Leukocytes, platelets, erythrocytes | 24-04700-10 | 24-04700-20 |
| CD271 | Schwann Cells, Mesenchymal Cells | 24-27100-10 | 24-27100-20 |
| HLA-DR+DP | APC (antigen-presenting cells) | 24-HLARP-10 | 24-HLARP-20 |

pluriBead® Suspension Veterinary

| Target cells | | S-pluriBead® | M-pluriBead® |
|----------------------------|---|--|--|
| anti-bovine (cow) | | 2 ml S-pluriBead® suspension for 5 ⁸ target cells | 2 ml M-pluriBead® suspension for 10 ⁸ target cells. Recommended for buffy coat or cell culture. |
| CD9 | Platelets | 25-00900-10 | 25-00900-20 |
| CD14 | Monocytes | 25-01400-10 | 25-01400-20 |
| CD21 | B cells | 25-02100-10 | 25-02100-20 |
| CD45R | Leukocytes | 25-045R0-10 | 25-045R0-20 |
| CD47 | Endotelial cells, epithelial cells | 25-04700-10 | 25-04700-20 |
| CD62L | B cells, T cells, monocytes, granulocytes | 25-062L0-10 | 25-062L0-20 |
| CD117 (c-kit) | Hematopoietic progenitor cells | 25-11700-10 | 25-11700-20 |
| HLA-DR+DP | APC (antigen-presenting cells) | 25-HLARP-10 | 25-HLARP-20 |
| anti-canine (dog) | | | |
| CD4 | Helper T cells | 27-00400-10 | 27-00400-20 |
| CD29 | T cells, platelets, endothelial cells | 27-02900-10 | 27-02900-20 |
| anti-equine (horse) | | | |
| CD11a | Leukocytes | 32-011a0-10 | 32-011a0-20 |
| CD41 | Platelets, Megakaryocytes | 32-04100-10 | 32-04100-20 |

pluriBead® Suspension Universal

Anti [species] labelled pluriBead® for use with external antibodies, followed by a standard pluriBead® cell separation protocol

| Product | Description | S-pluriBead® | M-pluriBead® |
|---------------|--------------------|--|--|
| | | 2 ml S-pluriBead® suspension for 5 ⁸ target cells | 2 ml M-pluriBead® suspension for 10 ⁸ target cells. Recommended for buffy coat or cell culture. |
| anti-mouse* | labeled pluriBead® | 31-GTaMS-10 | 31-GTaMS-20 |
| anti-rat* | labeled pluriBead® | 31-GTaRT-10 | 31-GTaRT-20 |
| anti-rabbit* | labeled pluriBead® | 31-GTaRB-10 | 31-GTaRB-20 |
| anti-hamster* | labeled pluriBead® | 31-GTaHS-10 | 31-GTaHS-20 |
| anti-goat* | labeled pluriBead® | 31-RBaGT-10 | 31-RBaGT-20 |

*polyclonal antibodies produced from the serum of host animal: goat (goat antibodies produced from rabbit)