Human B Cell Isolation Product Selection

Explore the infographic below to find the correct human B cell isolation product for your application.

1. Your Starting Sample
   - Whole Peripheral Blood/Buffy Coat
   - PBMCs/Leukapheresis Pack

2. Cell Separation Platform
   - Immunodensity Cell Separation
   - Immunomagnetic Cell Separation

3. Product Line
   - RosetteSep™
   - EasySep™

4. Selection Method
   - Negative Selection
   - Positive Selection
   - Sequential Selection (Positive + Negative)

5. Cell Isolation Kits
   - Catalog #s shown in ( )

Learn more at www.stemcell.com

Legend

Isolated Cell Types:
1. Naive B cells (CD19+CD20+CD27-)
2. Total Memory B cells (CD19+CD20+CD27+)
2'. CD19+CD20+IgG+CD27+ Memory B Cell Subset
3. Plasma Cells (CD19low/-CD20low/-CD138+)
4. B-CLL (CD19+CD5+) incl. CD43+, CD36+ and/or CD123+ B Cells

*i RosetteSep™ HLA B Cell Enrichment Cocktail (15064HLA) 1, 2, 3
*ii RosetteSep™ Human B Cell Enrichment Cocktail (15024) 1, 2, 3
*ii RosetteSep™ Human Multiple Myeloma Cell Enrichment Cocktail (15129) 2, 3
*i EasySep™ HLA B Cell Isolation Kit (89684) / EasySep™ Direct HLA Crossmatch B Cell Isolation Kit (19684 - available in the US only) 1, 2
*i EasySep™ Direct Human B-CLL Cell Isolation Kit (19664) 1, 2, 3, 4
*i EasySep™ Direct Human Naive B Cell Isolation Kit (19264) 1
*i EasySep™ Direct Human Naive B Cell Enrichment Kit (19254) 1
*i EasySep™ Human Pan-B Cell Enrichment Kit (19554) 1, 2, 3
*i EasySep™ Human Naive B Cell Enrichment Kit II Without CD43 Depletion (17963) 1, 2, 3, 4
*i EasySep™ Human Naive B Cell Isolation Kit (17254) 1
*i EasySep™ Human Memory B Cell Isolation Kit (17864) 1, 2
*i EasySep™ Human B Cell Enrichment Kit II Without CD43 Depletion (17963) 1, 2, 3, 4
*i EasySep™ Human B Cell Isolation Kit (17954) 1, 2
*i EasySep™ Human Naive B Cell Enrichment Kit II Without CD43 Depletion (17963) 1, 2, 3, 4
*i EasySep™ Human B Cell Isolation Kit (19254)
*i EasySep™ Human B Cell Isolation Kit II Without CD43 Depletion (17963)
*i EasySep™ Human B Cell Isolation Kit II Without CD43 Depletion (17963)
*i EasySep™ Human CD19 Positive Selection Kit II (17854) 1, 2
*i EasySep™ Human CD19 Positive Selection Kit II (17854) 1, 2
*i EasySep™ Human CD19 Chimerism Whole Blood B Cell Positive Selection Kit (17874) 1, 2
*i EasySep™ Human CD19 Chimerism Whole Blood B Cell Positive Selection Kit (17874) 1, 2
*i EasySep™ Human CD19 Chimerism Whole Blood B Cell Positive Selection Kit (17874) 1, 2
*i EasySep™ Human CD19 Positive Selection Kit II (17854) 1, 2
*i EasySep™ Human CD19 Positive Selection Kit II (17854) 1, 2
*i EasySep™ Human CD19 Positive Selection Kit II (17877) 1, 2
*i EasySep™ Human CD138 Positive Selection Kit II (17877) 1, 2
*i EasySep™ Human CD19 Positive Selection Kit II (17877) 1, 2
*i EasySep™ Human CD19 Positive Selection Kit II (17877) 1, 2
*i EasySep™ Human CD19 Positive Selection Kit II (17877) 1, 2
*i EasySep™ Human CD19 Positive Selection Kit II (17877) 1, 2

*iCat #15129: An antibody against CD56 is not included in the cocktail. This kit is recommended to be used only with samples containing malignant plasma cells.
*iiCat #17886 vs. 17874: 17886 targets B cells for positive selection with antibodies recognizing the CD19 and CD20 surface markers, whereas 17874 targets CD19+ cells for positive selection with an antibody recognizing the CD19 surface marker. The CD19 antigen is present on mature B cells and B cell progenitors, but is lost upon maturation to plasma cells. The antigen CD20 is expressed at all stages of B cell development except on pro-B cells or plasma cells.
*iiCat #19054 vs. 19254: 19254 is a faster version of the 19054 kit. 19254 uses Dextran RapidSpheres™ (Cat #50103), which are different from the EasySep™ D Magnetic Particles (Cat #19250) used in 19254.
*iiCat #19554 vs. 17963: To enrich for B cells from peripheral blood or other tissues of patients with B cell leukemia/lymphoma, or other disease states in which B cells may express CD43, CD36, and/or CD123, we recommend using 17963. The use of 19554 might lead to loss of leukemia/lymphoma B cells in certain donors.
*iiCat #17954 vs. 17754: 17754 is the particle-release version of 17854. When using the 17754 kit, bound magnetic particles are removed from the EasySep™-isolated CD19+ cells.

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