

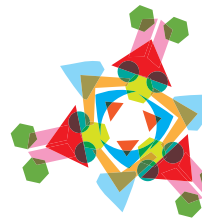
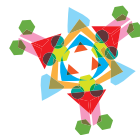


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Human Panels

Choose from our extensive portfolio of
high-quality fluorescent-conjugated reagents
to build your multicolor flow cytometry panels.



Welcome to a More Colorful WorldSM

Visit bdbiosciences.com/choice to see our extensive portfolio of both new and existing reagents. Then choose reagents to build panels that suit your unique research needs.

These panels were designed based on the general principles of multicolor panel design and have not been tested experimentally at BD Biosciences. Users are encouraged to design and optimize their panels based on their specific instrument and experimental design.

These panels are provided as examples only.

Panels may be compatible with other instruments depending on specific configuration.



B Cells

4 Color

Marker	Clone	Fluorochrome	Cat. No.
CD19	HIB19	APC	555415
CD45 (Leucocyte Common Antigen)	2D1	PerCP-Cy™5.5	332784 ^c
Ig, κ light chain	TB28-2	FITC	643773
Ig, λ light chain	JDC-12	PE	555797

Instrument Compatibility

Flow cytometry systems			Cell sorters	
BD FACSCanto™ II	BD LSRFortessa™	BD™ LSR II	BD FACSAria™	BD Influx™
●	●	●	●	●

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Human Panels

B Cells

6 Color - Option 1

Marker	Clone	Fluorochrome	Cat. No.
CD5	L17F12	PE-Cy™7	348790 ^c
CD19	SJ25C1	PerCP-Cy5.5	332780 ^c
CD20	2H7	Alexa Fluor® 700	560631
CD45 (Leucocyte Common Antigen)	2D1	APC-H7	560178
Ig, κ light chain	TB28-2	APC	341108
Ig, λ light chain	JDC-12	PE	555797

Instrument Compatibility

Flow cytometry systems			Cell sorters	
BD FACSCanto™ II	BD LSRFortessa™	BD™ LSR II	BD FACSAria™	BD Influx™
●	●	●	●	●

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B Cells

6 Color - Option 2

Marker	Clone	Fluorochrome	Cat. No.
CD5	L17F12	PE-Cy7	348810 ^c
CD19	SJ25C1	PerCP-Cy5.5	332780 ^c
CD23	M-L233	PE	555711
CD38	HIT2	APC	555462
CD45 (Leucocyte Common Antigen)	2D1	APC-H7	560178
FMC7	FMC7	FITC	332786 ^c

Instrument Compatibility

Flow cytometry systems			Cell sorters	
BD FACSCanto™ II	BD LSRFortessa™	BD™ LSR II	BD FACSAria™	BD Influx™
●	●	●	●	●



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Human Panels

Dendritic Cells

4 Color - Option 1

Marker	Clone	Fluorochrome	Cat. No.
CD11c (Integrin α^x chain)	B-ly6	APC	559877
CD123 (IL-3 Receptor α chain)	9F5	PE	555644
HLA-DR	L243 (G46-6)	PerCP-Cy5.5	560652
Lin-1, Lin-2, Lin-3*		FITC	340546* 643397 643510

Instrument Compatibility

Flow cytometry systems			Cell sorters	
BD FACSCanto™ II	BD LSRFortessa™	BD™ LSR II	BD FACSAria™	BD Influx™
●	●	●	●	●

*Either Lin-1, Lin-2, or Lin-3 can be used in this panel. Lineage cocktails (Lin-1, Lin-2, Lin-3) are useful for the identification of dendritic cells (DC) subsets by identifying the non-DC cells. Lin-1 contains anti-CD3, CD14, CD16, CD19, CD20, and CD56. Lin-2 is useful for the identification of CD16⁺ DC cells and contains anti-CD3, CD14, CD19, CD20, and CD56. Lin-3 is useful for the identification of CD16⁺, CD56⁺ DC cells and contains anti-CD3, CD14, CD19, and CD20.

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Dendritic Cells

4 Color - Option 2

Marker	Clone	Fluorochrome	Cat. No.
CD80 (B7-1)	L307.4	FITC	557226
CD83	HB15e	APC	551073
CD86 (B70/B7-2)	2331 (FUN-1)	PE	555658
CD209 (DC-SIGN)	DCN46	PerCP-Cy5.5	558263

Instrument Compatibility

Flow cytometry systems			Cell sorters	
BD FACSCanto™ II	BD LSRFortessa™	BD™ LSR II	BD FACSAria™	BD Influx™
●	●	●	●	●



Human Panels

Dendritic Cells

6 Color - Option 1

Marker	Clone	Fluorochrome	Cat. No.
CD11c (Integrin α^x chain)	B-ly6	APC	559877
CD16	3G8	APC-H7	560195
CD56 (N-CAM)	NCAM16.2	PE-Cy7	335826 ^c
CD123 (IL-3 Receptor α chain)	9F5	PE	555644
HLA-DR	L243 (G46-6)	PerCP-Cy5.5	560652
Lin-3*		FITC	643510

Instrument Compatibility

Flow cytometry systems			Cell sorters	
BD FACSCanto™ II	BD LSRFortessa™	BD™ LSR II	BD FACSAria™	BD Influx™
●	●	●	●	●

*Lin-3 is useful for the identification of CD16⁺, CD56⁺ dendritic cells and contains anti-CD3, CD14, CD19, and CD20.



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Dendritic Cells

6 Color - Option 2

Marker	Clone	Fluorochrome	Cat. No.
CD11c (Integrin α^x chain)	B-ly6	APC	559877
CD16	3G8	BD Horizon™ V450	560474
CD56 (N-CAM)	NCAM16.2	PE-Cy7	335826 ^c
CD123 (IL-3 Receptor α chain)	9F5	PE	555644
HLA-DR	L243 (G46-6)	PerCP-Cy5.5	560652
Lin-3*		FITC	643510

Instrument Compatibility†

Flow cytometry systems			Cell sorters	
BD FACSCanto™ II	BD LSRFortessa™	BD™ LSR II	BD FACSAria™	BD Influx™
●	●	●	●	●

*Lin-3 is useful for the identification of CD16⁺, CD56⁺ dendritic cells and contains anti-CD3, CD14, CD19, and CD20.

† Instruments must be equipped with a violet laser.

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Human Panels

Myeloid Cells

4 Color - Option 1

Marker	Clone	Fluorochrome	Cat. No.
CD13	WM15	APC	557454
CD15	HI98	FITC	555401
CD16	3G8	PE	555407
CD45 (Leucocyte Common Antigen)	2D1	PerCP-Cy5.5	332784 ^c

Instrument Compatibility

Flow cytometry systems			Cell sorters	
BD FACSCanto™ II	BD LSRFortessa™	BD™ LSR II	BD FACSAria™	BD Influx™
●	●	●	●	●

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Myeloid Cells

4 Color - Option 2

Marker	Clone	Fluorochrome	Cat. No.
CD11b/Mac-1 (CR3)	ICRF44	PE	555388
CD13	WM15	APC	557454
CD33	P67.6	FITC	345798 ^c
CD45 (Leucocyte Common Antigen)	2D1	PerCP-Cy5.5	332784 ^c

Instrument Compatibility

Flow cytometry systems			Cell sorters	
BD FACSCanto™ II	BD LSRFortessa™	BD™ LSR II	BD FACSAria™	BD Influx™
●	●	●	●	●

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Human Panels

Myeloid Cells

4 Color - Option 3

Marker	Clone	Fluorochrome	Cat. No.
CD14	M5E2	FITC	555397
CD33	P67.6	APC	345800 ^c
CD45 (Leucocyte Common Antigen)	2D1	PerCP-Cy5.5	332784 ^c
CD64	10.1	PE	558592

Instrument Compatibility

Flow cytometry systems			Cell sorters	
BD FACSCanto™ II	BD LSRFortessa™	BD™ LSR II	BD FACSAria™	BD Influx™
●	●	●	●	●

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Myeloid Cells

6 Color

Marker	Clone	Fluorochrome	Cat. No.
CD13	WM15	APC	557454
CD15	HI98	FITC	555401
CD16	3G8	PerCP-Cy5.5	560717
CD33	P67.6	PE-Cy7	333952 ^c
CD45 (Leucocyte Common Antigen)	HI30	Alexa Fluor® 700	560566
CD64	10.1	PE	558592

Instrument Compatibility

Flow cytometry systems			Cell sorters	
BD FACSCanto™ II	BD LSRFortessa™	BD™ LSR II	BD FACSAria™	BD Influx™
●	●	●	●	●



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NK Cells

6 Color

Marker	Clone	Fluorochrome	Cat. No.
CD3	SK7	PerCP-Cy5.5	332771 ^c
CD8	RPA-T8	PE	555367
CD16	3G8	PE-Cy7	557744
CD45 (Leucocyte Common Antigen)	HI30	Alexa Fluor® 700	560566
CD56 (N-CAM)	NCAM16.2	APC	341027 ^c
CD57	NK-1	FITC	555619

Instrument Compatibility

Flow cytometry systems			Cell sorters	
BD FACSCanto™ II	BD LSRFortessa™	BD™ LSR II	BD FACSAria™	BD Influx™
●	●	●	●	●

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Human Panels

T Cells

4 Color

Marker	Clone	Fluorochrome	Cat. No.
CD3	UCHT-1	FITC	555332
CD4	RPA-T4	APC	555349
CD8	RPA-T8	PE	555367
CD45 (Leucocyte Common Antigen)	2D1	PerCP-Cy5.5	332784 ^c

Instrument Compatibility

Flow cytometry systems			Cell sorters	
BD FACSCanto™ II	BD LSRFortessa™	BD™ LSR II	BD FACSAria™	BD Influx™
●	●	●	●	●

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T Cells

6 Color

Marker	Clone	Fluorochrome	Cat. No.
CD2 (LFA-2)	L303.1	PE-Cy7	335821 ^c
CD3	UCHT-1	FITC	555332
CD5	L17F12	PerCP-Cy5.5	341109 ^c
CD7	M-T701	BD Horizon V450	642916
CD8	RPA-T8	PE	555367
CD45 (Leucocyte Common Antigen)	2D1	APC-H7	560178

Instrument Compatibility†

Flow cytometry systems			Cell sorters	
BD FACSCanto™ II	BD LSRFortessa™	BD™ LSR II	BD FACSAria™	BD Influx™
●	●	●	●	●




†Instruments must be equipped with a violet laser.

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Regulatory T Cells (Tregs)/Th17

6 Color

Marker	Clone	Fluorochrome	Cat. No.
CD4	L200	PE-Cy7	560644  BD
CD25 (IL-2 Receptor α Chain)	M-A251	PerCP-Cy5.5	560503
FoxP3 (Scurfin, IPEX, JM2)*	259D/C7	PE	560046
CD127 (IL-7 Receptor α Subunit)	hIL-7R-M21	FITC	560549
CD196 (CCR6)	11A9	APC	560619
IL-17A	N49-653	BD Horizon V450	560610

Instrument Compatibility[†]

Flow cytometry systems			Cell sorters	
BD FACSCanto™ II	BD LSRFortessa™	BD™ LSR II	BD FACSAria™	BD Influx™
●	●	●	●	●

[†]Instruments must be equipped with a violet laser.

*Requires Human FoxP3 Buffer Set (Cat. No. 560098)

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