

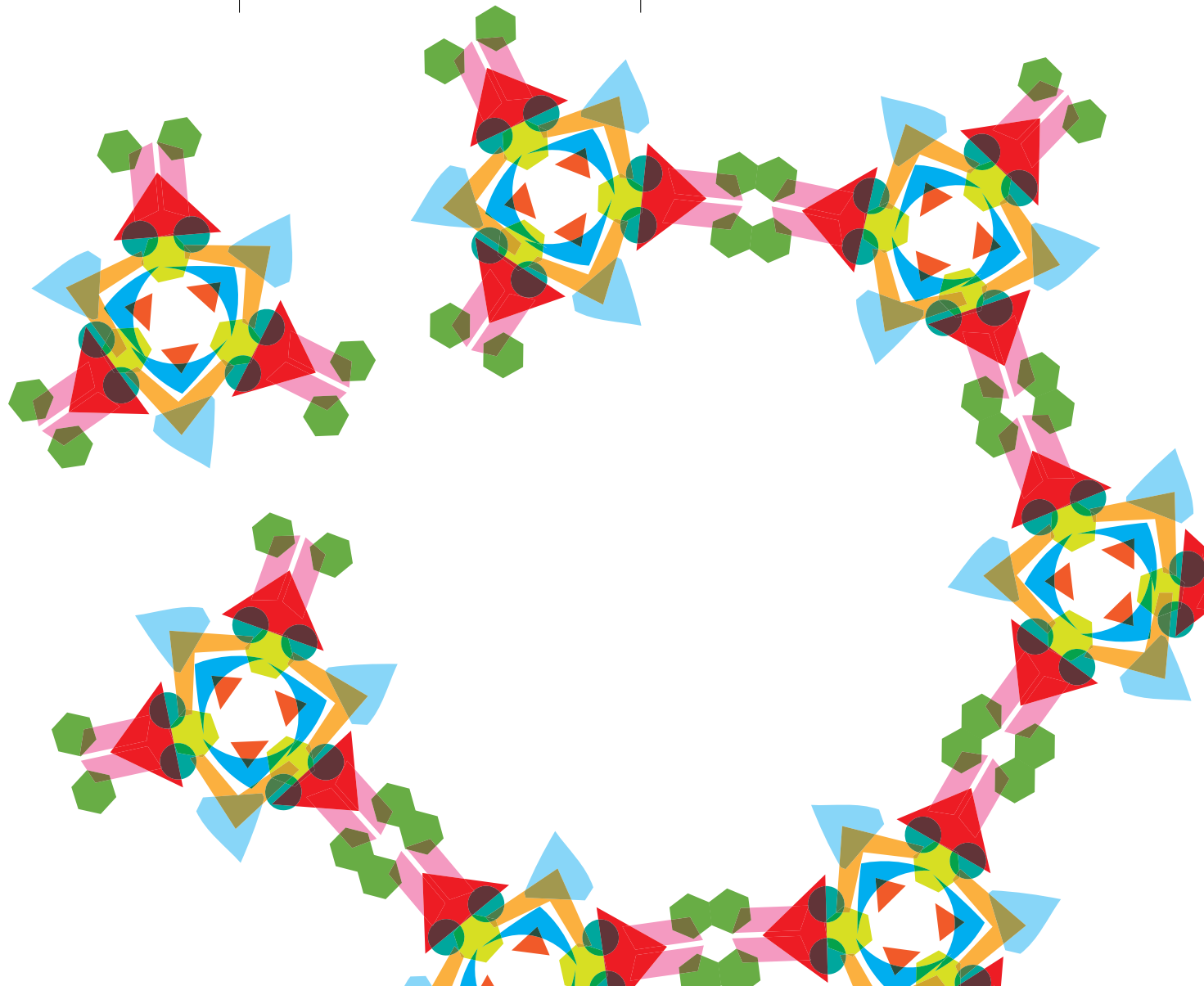


Welcome to More Choice

BD Multicolor Kit Catalog

1st Edition

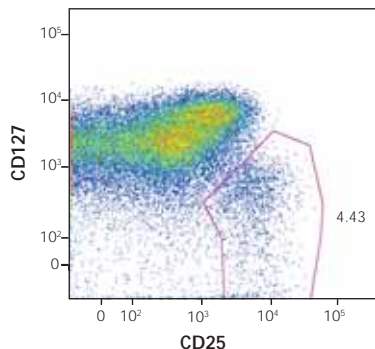
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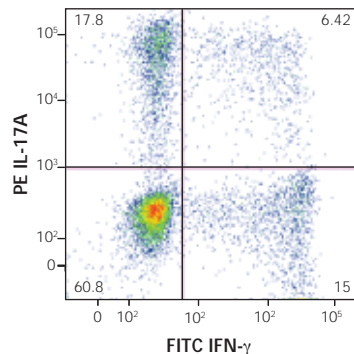
BD Multicolor Kit Catalog

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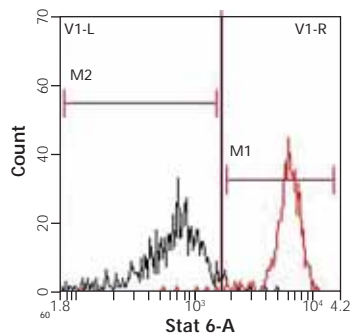
BD Multicolor Kit Catalog



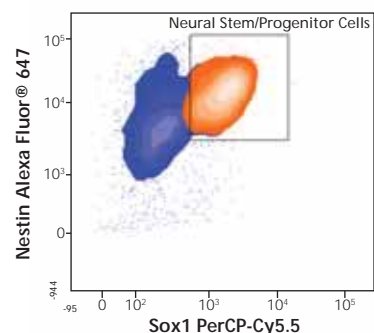
Three-color analysis of the expression of CD4, CD25, and CD127 on peripheral blood mononuclear cells (PBMCs) using the BD Pharmingen™ Human Regulatory T Cell Cocktail (Cat. No. 560249). Flow cytometry was performed on a BD™ LSR II system.



Flow cytometric analysis of Th17 polarized cells using the BD Pharmingen Human Th1/Th2/Th17 Phenotyping Kit (Cat. No. 560751) detected on a BD LSR II flow cytometer.



Data generated using the BD Phosflow Human Monocyte/NK Cell (CD14/CD19/CD16/CD56) Activation Kit (Cat. No. 562089) comparing unstimulated (black) versus stimulated (red) cells. Acquisition and analysis were performed on a BD Accuri® flow cytometer.



H9 human embryonic stem cell (hESC)-derived embryoid bodies (EBs) were analyzed for multiple markers to resolve neuronal stem cells (NSCs) and progenitors using the BD Stemflow™ Human Neural Lineage Analysis Kit (Cat. No. 561526). Acquisition and analysis were performed on a BD LSR II system.

Make the most of your time and samples with quality kits and cocktails from BD Biosciences.

- Pre-optimized fluorochrome combinations
- Cocktails to save pipetting and increase consistency
- Detailed protocols to increase success with new applications

BD Biosciences kits have been developed using primary cell models and are available for many applications including:

- Immunophenotyping
- Stem cell analysis
- Apoptosis
- Cell cycle
- Cell proliferation
- Cell signaling (BD Phosflow™)

Many kits contain complete reagents including buffers and controls. To determine all included kit components and required reagents, please see the technical datasheet (TDS) or user manual at bdbiosciences.com.

BD Biosciences Fluorochrome Specifications

Use our Fluorochrome Specifications chart to determine which fluorochromes are excited by the lasers on your instrument. Visit bdbiosciences.com/colors for more detailed information about our newest fluorochromes and instrumentation.

Fluorochrome	Fluorescence Emission Color	Ex-Max (nm)	Excitation Laser Line (nm)*	Em-Max (nm)	Analyzers					Sorters	
					BD Accuri® C6	BD FACSCalibur™	BD FACVerse™ §	BD FACSCanto™ II	BD LSRFortessa™ and Special Order BD LSRFortessa	BD FACSAria™ III and Special Order BD FACSAria	BD Influx™
Hoechst 33342	Blue	350	355, 375	461					•	•	•
BD Horizon™ V450	Blue	404	405	448			•	•	•	•	•
Pacific Blue™	Blue	401	405	452			•	•	•	•	•
BD Horizon™ V500	Green	415	405	500			•	•	•	•	•
AmCyan	Green	457	405	491			•	•	•	•	•
Alexa Fluor® 488	Green	495	488	519	•	•	•	•	•	•	•
FITC	Green	494	488	519	•	•	•	•	•	•	•
PE	Yellow	496, 564	488, 532, 561	578	•	•	•	•	•	•	•
PE-Texas Red®	Orange	496, 564	488, 532, 561	615			•	•	•	•	•
PI	Orange	351	488, 532, 561	617	•	•	•	•	•	•	•
7-AAD	Red	543	488, 532, 561	647	•	•	•	•	•	•	•
APC†	Red	650	633, 635, 640	660	•	•	•	•	•	•	•
Alexa Fluor® 647	Red	650	633, 635, 640	668	•	•	•	•	•	•	•
PE-Cy™5†	Red	496, 564	488, 532, 561	667	•¶	•	•	•	•	•	•
PerCP	Red	482	488, 532	678	•	•	•	•	•‡	•	•‡
PerCP-Cy™5.5	Far Red	482	488, 532	695	•	•	•	•	•	•	•
Alexa Fluor® 700	Far Red	696	633, 635, 640	719			•	•	•	•	•
PE-Cy™7	Infrared	496, 564	488, 532, 561	785	•	•	•	•	•	•	•
APC-Cy7	Infrared	650	633, 635, 640	785			•	•	•	•	•
BD APC-H7	Infrared	650	633, 635, 640	785			•	•	•	•	•

* The excitation laser line represents commonly used lasers that excite the fluorochrome. It does not necessarily reflect the lasers available for each particular instrument.

† APC and PE-Cy5 may be used together on instruments with cross-beam compensation.

‡ Sensitivity for PerCP with high-power lasers (>25 mW) is reduced and is only recommended for known highly expressed markers.

§ Capable of detecting 8 colors simultaneously (4 blue laser, 2 red laser, 2 violet laser). PE-Texas Red® and Alexa Fluor® 700 filters are available separately.

¶ Extra care must be taken to avoid spillover.

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BD Multicolor Kit Catalog

Research Kits

Choose from our extensive portfolio of high-quality multicolor kits.

Apoptosis, Cell Cycle, and Cell Proliferation				Blue Laser (488 nm)						Red Laser (640 nm)		
				Emission Max			519 nm	519 nm	578 nm	678 nm	695 nm	785 nm
Product Name	Reactivity	Size	Cat. No.	FITC	Alexa Fluor® 488	PE	PerCP	PerCP-Cy5.5	PE-Cy7	APC	Alexa Fluor® 647	BD APC-H7
7-AAD Staining Solution		2 mL	559925				7-AAD					
Annexin V : FITC Apoptosis Detection Kit I		100 tests	556547	Annexin V		PI	PI					
Annexin V : FITC Apoptosis Detection Kit II		100 tests	556570	Annexin V		PI	PI					
Annexin V : PE Apoptosis Detection Kit I		100 tests	559763			Annexin V	7-AAD					
APC BrdU Flow Kit		50 tests	552598				7-AAD			BrdU		
		4 x 50 tests	557892				7-AAD			BrdU		
Apoptosis Detection Kit (APO-Direct)		50 tests	556381	dUTP		PI	PI					
Caspase-3, Active Form, mAb Apoptosis Kit: FITC (CPP32)	Hu, Ms	100 tests	550480	Active Caspase-3								
BD™ Cell Viability Kit		100 tests	349483*	Thiazole Orange (TO)		PI/TO	PI					
DNA Reagent Kit		40 tests	340242*			PI	PI					
FITC BrdU Flow Kit		50 tests	559619	BrdU			7-AAD					
		4 x 50 tests	557891	BrdU			7-AAD					
BD™ MitoScreen (JC-1)		100 tests	551302	JC-1		JC-1						



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Immunophenotyping				Blue Laser (488 nm)						Red Laser (640 nm)		
				Emission Max			519 nm	519 nm	578 nm	678 nm	695 nm	785 nm
Product Name	Reactivity	Size	Cat. No.	FITC	Alexa Fluor® 488	PE	PerCP	PerCP-Cy5.5	PE-Cy7	APC	Alexa Fluor® 647	BD APC-H7
Dog Activated T Lymphocyte Cocktail	Dog	50 tests	558704	T-Cell Activation Marker		B-Cell Marker				Pan T-Cell		
Dog T Lymphocyte Cocktail	Dog	50 tests	558699	CD8		CD4				Pan T-Cell		
CD3/MPO/CD79a	Hu	50 tests	340961*	CD3		Myeloperoxidase		CD79a				
CD4 Intracellular IFN-γ Detection Kit, 4-color	Hu	25 tests	337185*	IFN-γ		CD69		CD4		CD3		
CD4 Intracellular IL-2 Detection Kit, 4-color	Hu	25 tests	337187*	IL-2		CD69		CD4		CD3		
CD4/CD25/CD3	Hu	50 tests	341134*	CD4		CD25		CD3				
CD4/CD38/CD3/HLA-DR	Hu	50 tests	340573*	CD4		CD38	CD3			HLA-DR		
CD4/CD69/CD3	Hu	50 tests	340365*	CD4		CD69	CD3					
CD5/CD10/CD19	Hu	50 tests	341138*	CD5		CD10		CD19				
CD7/CD33	Hu	50 tests	341140*	CD7		CD33						
CD8 Intracellular IFN-γ Detection Kit, 4-color combination	Hu	25 tests	346049*	IFN-γ		CD69		CD8		CD3		
CD8/CD38/CD3	Hu	50 tests	341004*	CD8		CD38	CD3					
CD8/CD38/CD3/HLA-DR	Hu	50 tests	340572*	CD8		CD38	CD3			HLA-DR		
CD8/CD56/CD3	Hu	50 tests	341142*	CD8		CD56		CD3				
CD8/CD69/CD3	Hu	50 tests	340367*	CD8		CD69	CD3					
CD14/CD64	Hu	50 tests	341124*	CD14		CD64						
CD15/CD34	Hu	50 tests	341128*	CD15		CD34						
CD15/CD117	Hu	50 tests	341126*	CD15		CD117						
CD19/CD69/CD45	Hu	50 tests	340418*	CD19		CD69	CD45					
CD38/CD56/CD19	Hu	50 tests	341132*	CD38		CD56		CD19				
CD45/Glycophorin A/CD41a	Hu	50 tests	341136*	CD45		Glycophorin A		CD41a				



BD Multicolor Kit Catalog

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Immunophenotyping				Blue Laser (488 nm)						Red Laser (640 nm)		
				Emission Max	519 nm	519 nm	578 nm	678 nm	695 nm	785 nm	660 nm	668 nm
Product Name	Reactivity	Size	Cat. No.	FITC	Alexa Fluor® 488	PE	PerCP	PerCP-Cy5.5	PE-Cy7	APC	Alexa Fluor® 647	BD APC-H7
CD45RA/CD45RO/CD3/CD4	Hu	50 tests	340571*	CD45RA		CD45RO	CD3			CD4		
CD45RA/CD45RO/CD3/CD8	Hu	50 tests	340574*	CD45RA		CD45RO	CD3			CD8		
CD45RA/CD62L/CD3/CD4	Hu	50 tests	340977*	CD45RA		CD62L	CD3			CD4		
CD45RA/CD62L/CD3/CD8	Hu	50 tests	340978*	CD45RA		CD62L	CD3			CD8		
CD56/CD69/CD45	Hu	50 tests	340417*	CD56		CD69	CD45					
CD57/CD16/CD3	Hu	50 tests	346597*	CD57		CD16		CD3				
CD64/CD45	Hu	50 tests	340768*			CD64	CD45					
CD69/CD3	Hu	50 tests	340368*			CD69	CD3					
CD79b/κ/CD19	Hu	50 tests	335803*	CD79b		Ig κ		CD19				
CD79b/λ/CD19	Hu	50 tests	335801*	CD79b		Ig λ		CD19				
CD86/CD209/CD83	Hu	50 tests	334098*			CD86		CD209		CD83		
CD103/CD22/CD20	Hu	50 tests	341122*	CD103		CD22		CD20				
FMC7/CD23/CD19	Hu	50 tests	341148*	FMC7		CD23		CD19				
FoxP3 Staining Kit - Alexa Fluor® 488, FoxP3, CD4, CD25	Hu	100 tests	560131		FoxP3	CD25				CD4		
FoxP3 Staining Kit - Alexa Fluor® 647, FoxP3, CD4, CD25	Hu	100 tests	560132	CD4		CD25					FoxP3	
FoxP3 Staining Kit - PE, FoxP3, CD4, CD25	Hu	100 tests	560133	CD4		FoxP3				CD25		
HLA-DR/CD13	Hu	50 tests	341144*	HLA-DR		CD13						
HLA-DR/CD34	Hu	50 tests	341146*	HLA-DR		CD34						
HLA-DR/Monocyte	Hu	50 tests	340827*			HLA-DR		Anti-Monocyte				
IFN-γ/CD69/CD4	Hu	50 tests	340962*	IFN-γ		CD69		CD4				
IFN-γ/CD69/CD4/CD3	Hu	50 tests	337184*	IFN-γ		CD69		CD4		CD3		



BD Multicolor Kit Catalog

Research Kits

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Immunophenotyping				Blue Laser (488 nm)						Red Laser (640 nm)		
				Emission Max			519 nm	519 nm	578 nm	678 nm	695 nm	785 nm
Product Name	Reactivity	Size	Cat. No.	FITC	Alexa Fluor® 488	PE	PerCP	PerCP-Cy5.5	PE-Cy7	APC	Alexa Fluor® 647	BD APC-H7
IFN- γ /CD69/CD8/CD3	Hu	50 tests	346048*	IFN- γ		CD69		CD8		CD3		
IFN- γ /IL-4	Hu	50 tests	340456*	IFN- γ		IL-4						
IgG ₁ /CD3 Isotype Control	Hu	50 tests	340414*			IgG ₁	CD3					
IgG ₁ /CD45 Isotype Control	Hu	50 tests	340416*			IgG ₁	CD45					
IgG ₁ /IgG ₁ /CD3 Isotype Control	Hu	50 tests	340369*	IgG ₁		IgG ₁	CD3					
IgG _{2a} /IgG ₁ (Intracellular Formulation)	Hu	50 tests	340458*	IgG _{2a}		IgG ₁						
IgG _{2a} /IgG ₁ /CD4 Isotype Control	Hu	50 tests	340965*	IgG _{2a}		IgG ₁		CD4				
IL-2/CD69/CD4	Hu	50 tests	340963*	IL-2		CD69		CD4				
Human Naïve/Memory T Cell Panel	Hu	50 tests	561438	CD45RA				CD4			CD197	CD3
Human Regulatory T Cell Cocktail - CD4, CD25, CD127	Hu	50 tests	560249	CD4					CD25		CD127	
Human Regulatory T-Cell Function Kit	Hu	50 tests	648956*	CD4		CD25		CD3	CD69			
Human Th1/Th2/Th17 Phenotyping Kit	Hu	50 tests	560751	IFN- γ		IL-17A		CD4		IL-4		
Human Th1/Th17 Phenotyping Kit	Hu	50 tests	560752	IFN- γ		IL-17A		CD4		IL-4		
Human Th17/Treg Phenotyping Kit	Hu	50 tests	560762			IL-17A		CD4			FoxP3	
T/B/NK Cell Cocktail	Hu, NHP	50 tests	558639	CD3		CD16				CD20		
T Lymphocyte Cocktail	Hu, NHP	50 tests	558625	CD3		CD4				CD8		
TNF- α /CD69/CD4	Hu	50 tests	340964*	TNF- α		CD69		CD4				
B Lymphocyte Activation Antibody Cocktail, with Isotype Control	Ms	100 tests	558063			CD69			CD25	CD19		
		100 tests	558064	CD19		CD69			CD25			
B Lymphocyte Subset Antibody Cocktail, with Isotype Control	Ms	100 tests	558331	slgM		CD23			CD45R/B220			
		100 tests	558332			CD23			CD45R/B220	slgM		



BD Multicolor Kit Catalog

Research Kits

Choose from our extensive portfolio of high-quality multicolor kits.

Immunophenotyping				Blue Laser (488 nm)						Red Laser (640 nm)		
				Emission Max			519 nm	519 nm	578 nm	678 nm	695 nm	785 nm
Product Name	Reactivity	Size	Cat. No.	FITC	Alexa Fluor® 488	PE	PerCP	PerCP-Cy5.5	PE-Cy7	APC	Alexa Fluor® 647	BD APC-H7
Mouse Th1/Th2/Th17 Phenotyping Kit	Ms	50 tests	560758	IFN- γ		IL-17A		CD4		IL-4		
Mouse Th1/Th17 Phenotyping Kit	Ms	50 tests	560759	IFN- γ		IL-17A		CD4				
Mouse Th17/Treg Phenotyping Kit	Ms	50 tests	560767			IL-17A		CD4			Foxp3	
T Lymphocyte Subset Antibody Cocktail, with Isotype Control	Ms	100 tests	558431			CD4			CD3e	CD8a		
Rat Activated T Lymphocyte Cocktail	Rat	50 tests	558494	RT1B		CD25				CD3		
Rat T Lymphocyte Cocktail	Rat	50 tests	558493	CD8a		CD4				CD3		
Rat T/B/NK Cell Cocktail	Rat	50 tests	558495	CD45RA		CD161a				CD3		



BD Multicolor Kit Catalog

Research Kits

Choose from our extensive portfolio of high-quality BD Phosflow kits.

BD Phosflow				Blue Laser (488 nm)						Red Laser (640 nm)		
				Emission Max						660 nm	668 nm	785 nm
Product Name	Reactivity	Size	Cat. No.	FITC	Alexa Fluor® 488	PE	PerCP	PerCP-Cy5.5	PE-Cy7	APC	Alexa Fluor® 647	BD APC-H7
Human Monocyte/NK Cell Activation Kit	Hu	50 tests	562089		CD14, CD19	CD16, CD56			CD3		ERK1/2 (pT202/pY204), p38 MAPK (pT180/Py182), Stat1 (pY701), Stat3 (pY705), Stat5 (pY694), Stat6 (pY641) [†]	
Human T Cell Activation Kit	Hu	50 tests	560750	CD4		CD8	CD3				ERK1/2 (pT202/pY204), p38 MAPK (pT180/Py182), Stat1 (pY701), Stat3 (pY705), Stat5 (pY694), Stat6 (pY641) [†]	



* RUO (GMP) status reagents

[†] Provided in separate vials

Listing in column refers to either a protein, antibody, dye, or other small molecules used for detection.

BD Multicolor Kit Catalog

Research Kits

Choose from our extensive portfolio of high-quality stem cell kits.

Stem Cell				Blue Laser (488 nm)						Red Laser (640 nm)		
				Emission Max						660 nm	668 nm	785 nm
Product Name	Reactivity	Size	Cat. No.	FITC	Alexa Fluor® 488	PE	PerCP	PerCP-Cy5.5	PE-Cy7	APC	Alexa Fluor® 647	BD APC-H7
Human Cell Surface Marker Screening Panel [†]	Hu	5 tests	560747								Secondary antibody	
Human Neural Lineage Analysis Kit	Hu	25 tests	561526	CD44	Ki67	Doublecortin		Sox1, Sox2			GFAP, Nestin	
Human and Mouse Pluripotent Stem Cell Analysis Kit	Hu	50 tests	560477			SSEA-1		Oct3/4			SSEA-4	
Human Pluripotent Stem Cell Transcription Factor Analysis Kit	Hu	50 tests	560589			Nanog		Oct3/4			Sox-2	
Mouse Pluripotent Stem Cell Transcription Factor Analysis Kit	Ms	50 tests	560585			Nanog		Oct3/4			Sox-2	

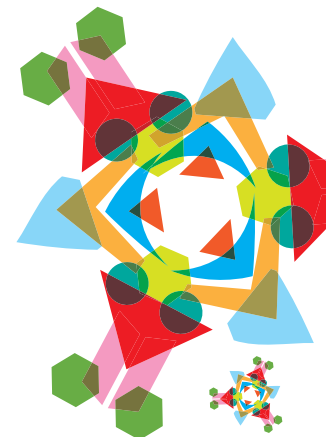
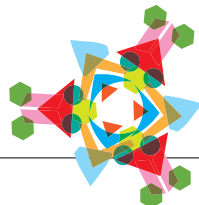
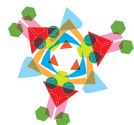


* RUO (GMP) status reagents

[†] Contains 242 purified antibodies to cell surface markers

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APC-Cy7: US patent 5,714,386

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