

# Cytek® Full Spectrum Profiling™ Solutions

## Full System Solution For Cell Analysis

The Cytek® Aurora and Northern Lights™ analyzers, as well as the Aurora CS sorter, provide extraordinary resolution and assay flexibility to scientists. Thanks to the system's unique optical design, new fluorochrome combinations with highly overlapping emission spectra are now possible. Additionally, the state-of-the-art optics and low-noise electronics add excellent sensitivity and resolution. All together, we have demonstrated 40 colors on a 5-laser Aurora instrument, redefining what is possible in flow cytometry.



Scan here to read the full  
40-color OMIP-069

Cytek's experience in designing a variety of full spectrum panels has led to a deeper understanding of how fluorochromes react together in increasingly complex fluorescent experiments. We are now applying this expertise and understanding to evaluate and select cFluor® dyes and antibody conjugates.

Cytek® cFluor®	1° Excitation Laser	Peak Emission	Peak Channel	Dye With Similar Emission	Chemistry	cFluor Advantages
cFluor® V420	Violet	420 nm	V2	Alexa Fluor® 405	Small molecule	Brighter than Alexa Fluor® 405
cFluor® V450	Violet	450 nm	V3	Pacific Blue™; V450; eFluor® 450; VioBlue®	Small molecule	Brighter than alternative dyes
cFluor® V547	Violet	547 nm	V8	Pacific Orange™; Spark Violet™ 538	Small molecule	Brighter than Pacific Orange™
cFluor® V610	Violet	610 nm	V10	BV605	Small molecule	Spectrally unique, works well with BV605
cFluor® B515	Blue	515 nm	B1	BB515; Vio™ B515; Vio Bright™ B515	Small molecule	Works well with Spark Blue™ 550
cFluor® B532	Blue	532 nm	B3	FITC; Alexa Fluor® 488; Vio Bright™ FITC; KIRAVIA Blue 520™	Small molecule	Brighter than FITC & Alexa Fluor® 488
cFluor® B548	Blue	548 nm	B3	Spark Blue™ 550; Alexa Fluor® 532	Small molecule	Works well with BB515 or Vio Bright® B515
cFluor® B690	Blue	690 nm	B9	PerCP-Cy™5.5 or PerCP/Cyanine5.5; BB700	Tandem	
cFluor® YG584	Yellow-Green	584 nm	YG1	PE	Small molecule	Spectrally unique, works well with PE
cFluor® YG610	Yellow-Green	610 nm	YG3	PE-Dazzle™ 594; PE-CF594; PE-Vio® 615; PE-eFluor® 610; eFluor® 615	Small molecule	Spectrally unique, works well with PE-Dazzle™ 594
cFluor® BYG575	Blue, Yellow-Green	575 nm	YG1	PE	Protein	
cFluor® BYG610	Blue, Yellow-Green	610 nm	B6, YG3	PE-Dazzle™ 594; PE-CF594; PE-Vio® 615; PE-eFluor® 610; eFluor® 615	Tandem	Brighter than PE-Dazzle™ 594
cFluor® BYG667	Blue, Yellow-Green	667 nm	B8, YG5	PE-Cy™5 or PE/Cyanine5	Tandem	
cFluor® BYG680	Blue, Yellow-Green	680 nm	B9, YG6	PE-Cy™5.5 or PE/Cyanine5.5	Tandem	Spectrally unique
cFluor® BYG710	Blue, Yellow-Green	710 nm	B10, YG7	PE/Fire™ 700; PE-Alexa Fluor® 700	Tandem	SI similar to PE-Cy™7, less spillover into PE-Cy™5
cFluor® BYG750	Blue, Yellow-Green	750 nm	B12, YG8	None	Tandem	Spectrally unique, SI similar to PE, PE-Cy™5
cFluor® BYG781	Blue, Yellow-Green	781 nm	B13, YG9	PE-Cy™7 or PE/Cyanine7; PE-Vio® 770	Tandem	
cFluor® R659	Red	659 nm	R1	APC	Protein	
cFluor® R668	Red	668 nm	R2	Alexa Fluor® 647; eFluor® 660; Cy™5	Small molecule	
cFluor® R685	Red	685 nm	R3	APC-Cy™5.5 or APC/Cyanine5.5; Alexa Fluor® 660; Spark NIR™ 685	Small molecule	Less spillover into YG, Violet, & Alexa Fluor® 700
cFluor® R720	Red	720 nm	R4	Alexa Fluor® 700; APC-R700; APC-Alexa Fluor® 700	Small molecule	SI greater than Alexa Fluor® 700
cFluor® R780	Red	780 nm	R7	APC/Fire™ 750; APC-H7; APC-Cy™7 or APC/Cyanine7	Tandem	
cFluor® R840	Red	840 nm	R8	APC/Fire™ 810	Tandem	

Full spectrum signatures can be viewed at [spectrum.cytekbio.com](https://spectrum.cytekbio.com)

Whether you are running a routine assay or a highly complex, multicolor experiment, our instruments, software, and cFluor reagents and kits make full spectrum flow cytometry accessible to any lab.

# cFluor® Assay & Kits

## Turnkey Solutions for Immunophenotyping

When used with Cytek full spectrum flow cytometers, the cFluor immunoprofiling kits provide turnkey solutions for basic to in-depth research needs in immunophenotyping of human PBMC and whole blood. Users with different levels of expertise are now empowered to get optimal results.

These pre-optimized kits take away the need for time consuming, labor intensive, and costly panel design and optimization. Cytek also provides the following tools to streamline the laboratory workflow:

- Protocols for sample preparation, staining, and acquisition
- Experiment and analysis templates

Start with our 8-color kit to obtain basic immunophenotyping data. The 14-color kit adds several markers useful for the identification of B- and T-cell subsets. The 25-color panel provides detailed immunophenotyping across many subsets to reproducibly uncover maximum data from precious samples. These panels can be easily expanded to a larger panel.

Description	Size	P/N
cFluor® TBMNK Kit, 8 Color	25 Tests	R7-40001
cFluor® Immunoprofiling Kit, 14 Color	25 Tests	R7-40000
Cytek 25-Color Immunoprofiling Assay, cFluor® Reagent Kit (18C)	25 Tests	R7-40002
Immunoprofiling Kit, 7 Color (Brilliant Violet™), BioLegend®*	25 Tests	900004160
ViaDye™ Red Fixable Viability Dye Kit	100 Tests	R7-60008

\*Available for purchase from BioLegend

cFluor® V547, cFluor® B515, cFluor® B532, cFluor® R668 and cFluor® R720 are equivalent to CF®405L, CF®488A, CF®503, CF®647, and CF®700 respectively, manufactured and provided by Biotium, Inc. under an Agreement between Biotium and Cytek (LICENSEE). The manufacture, use, sale, offer for sale, or import of the product is covered by one or more of the patents or pending applications owned or licensed by Biotium. The purchase of this product includes a limited, non-transferable immunity from suit under the foregoing patent claims for using only this amount of product for the purchaser's own internal research. No right under any other patent claim, no right to perform any patented method, and no right to perform commercial services of any kind, including without limitation reporting the results of purchaser's activities for a fee or other commercial consideration, is conveyed expressly, by implication, or by estoppel.

Cytek dye cFluor® R840 and its conjugates were developed, manufactured, and is commercialized by BioLegend, Inc. under the trademark APC/Fire810™. Cytek dye cFluor® BYG610 was developed, manufactured, and is commercialized by BioLegend, Inc. under the trademark PE-Dazzle 594™.

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**Find out more at [www.cytekbio.com/collection/reagents](http://www.cytekbio.com/collection/reagents)**

Please contact [sales@cytekbio.com](mailto:sales@cytekbio.com) with any questions

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