



DuraClone IM

Standardized phenotyping panels for studies of the human immune system

Standardize with the experts, adopt DuraClone IM Tubes.

Clinical research studies require accurate, reproducible results that can be compared between laboratories and across geographies.



***DuraClone IM Tubes raise the bar
to a new level of quality and standardization
in high content flow cytometry.***



Based on collaborative work with The ONE Study consortium, DuraClone IM marker and dye selections have been designed and optimized by expert flow labs.

www.onestudy.org

Standardization of whole blood immune phenotype monitoring for clinical trials: panels and methods from the ONE study
Mathias Streitz, Tewfik Miloud, Michael Kapinsky, Michael R Reed, Robert Magari, Edward K Geissler, James A Hutchinson, Katrin Vogt, Stephan Schlickeiser, Anders Handrup Kverneland, Christian Meisel, Hans-Dieter Volk and Birgit Sawitzki, Transplantation Research 2013, 2:17 doi:10.1186/2047-1440-2-17

Standardized phenotyping panels for studies of the human immune system

The continuous increase of multiplexing capability in cytometry allows to choose from an extensive menu of markers and fluorochromes. In order not to compromise data accuracy and comparability across multiple study sites, standardization of immune phenotyping panels is strongly implied. With the DuraClone IM tubes, Beckman Coulter provides a standardized set of panels that reveal a comprehensive image of a human individual's immune system. The panels have been developed by expert labs from the ONE study consortium striving for most informative marker combinations along an optimal choice of fluorochromes.

Worry-free compensation for high content flow cytometry.

Banish the idea that high content flow is complicated due to tedious compensation adjustments.

DuraClone IM Tubes are provided with a robust compensation solution which delivers the standardization and workflow efficiency required for clinical research studies.

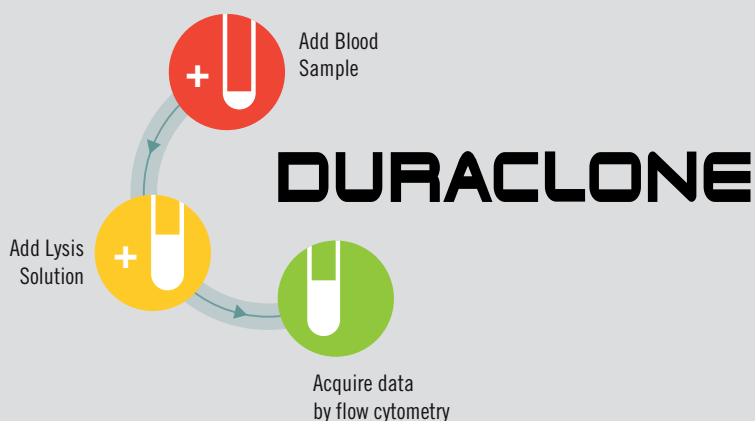
Three dried reagent single color compensation kits are provided in each package of 25 assay tubes. DuraClone IM single color conjugate compensation tubes are color-coded with lot-matched dyes, specific for each panel.



Reduce hands-on time, waste and rework

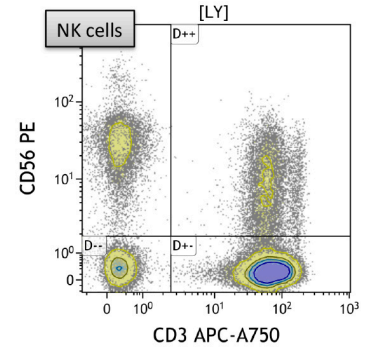
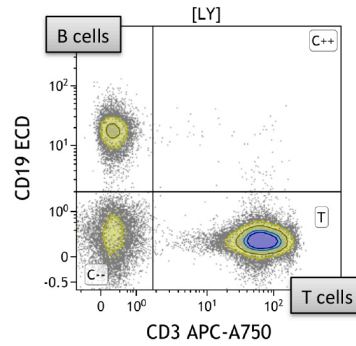
Eliminate errors due to manual liquid reagent cocktail preparation with these ready-to-use, unitized dried reagent panels.

The simplified workflow makes DuraClone IM Tubes the optimal choice for streamlining high content flow cytometry in clinical research studies.



The Phenotyping Basic Tube

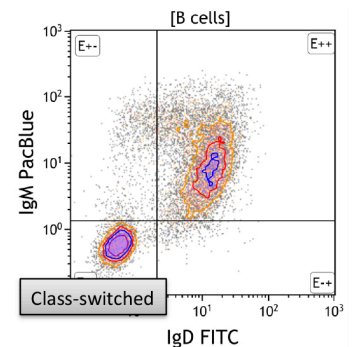
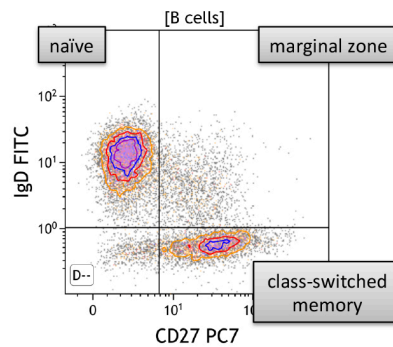
delineates principal lymphocyte subsets as well as subpopulations of monocytes.



B53309	DuraClone IM Phenotyping Basic Tube RUO - 25 tests	FITC	PE	ECD	PC5.5	PC7	APC	A700 ⁽¹⁾	APC-A750 ⁽³⁾	Pacific Blue*	Krome Orange
		CD16	CD56	CD19	-	CD14	CD4	CD8	CD3	-	CD45

The B Cell Tube

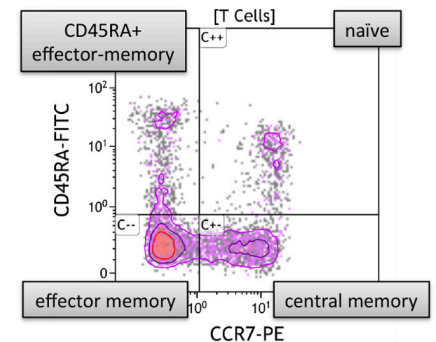
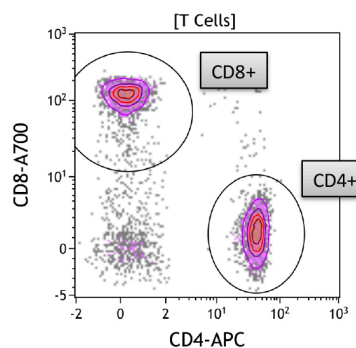
allows for identification of late maturation stages of B cells, such as: transitional stage, isotype class-switch, naïve and memory stages.



B53318	DuraClone IM B cell Tube RUO - 25 tests	FITC	PE	ECD	PC5.5	PC7	APC	A700 ⁽¹⁾	APC-A700 ⁽²⁾	APC-A750 ⁽³⁾	Pacific Blue*	Krome Orange
		IgD	CD21	CD19	-	CD27	CD24	-	-	CD38	IgM	CD45

The T Cell Subsets Tube

indicates maturation stages of T cells, covering naïve, effector, memory and terminal differentiation stages.



B53328	DuraClone IM T cell subsets Tube RUO - 25 tests	FITC	PE	ECD	PC5.5	PC7	APC	A700 ⁽¹⁾	APC-A750 ⁽³⁾	Pacific Blue*	Krome Orange
		CD45RA	CCR7	CD28	PD1	CD27	CD4	CD8	CD3	CD57	CD45

(1) Alexa Fluor* 700

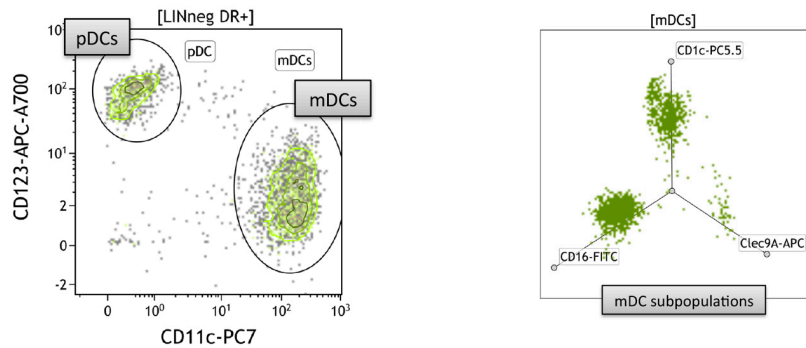
(2) APC-Alexa Fluor* 700

(3) APC-Alexa Fluor* 750

(4) Alexa Fluor* 647

The Dendritic Cells tube

discriminates leukocyte-lineage positive cells and identifies plasmacytoid dendritic cells and 3 major subsets of myeloid dendritic cells.

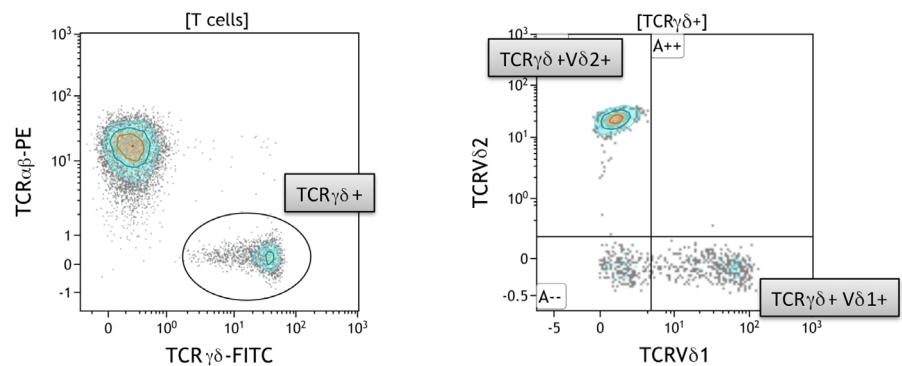


B53351	DuraClone IM Dendritic cell Tube RUO - 25 tests	FITC	PE	ECD	PC5.5	PC7	APC	APC-A700 ⁽¹⁾	APC-A750 ⁽³⁾	Pacific Blue*	Krome Orange
		CD16	Lineage [§]	-	CD1c	CD11c	Clec9A	CD123		HLA-DR	CD45

[§] CD3 / CD19 / CD20 / CD14 / CD56

The TCRs Tube

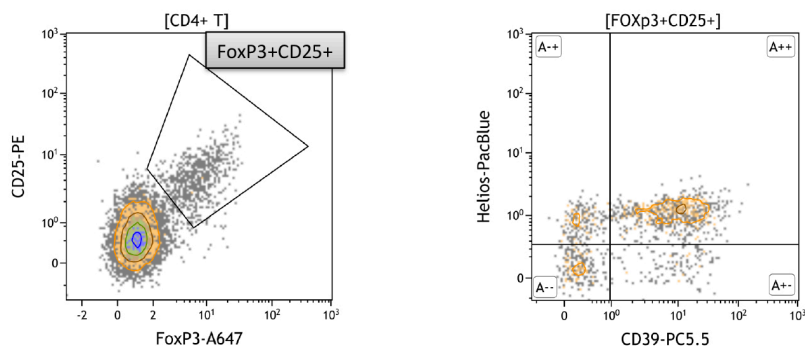
allows for assessment of TCR $\alpha\beta$ and $\gamma\delta$ protein chain expression and to detect $V\delta 1^+$ and $V\delta 2^+$ subsets among $TCR\gamma\delta^+$ T cells.



B53340	DuraClone IM TCR subsets Tube RUO - 25 tests	FITC	PE	ECD	PC5.5	PC7	APC	A700 ⁽¹⁾	APC-A750 ⁽³⁾	Pacific Blue*	Krome Orange
		TCR $\gamma\delta$	TCR $\alpha\beta$	HLA-DR	-	TCRVδ1	CD4	CD8	CD3	TCRVδ2	CD45

The Treg Tube

enables identification and characterization of FoxP3⁺ regulatory T cells using a fast permeabilization protocol.



B53346*	DuraClone IM Treg Tube RUO - 25 tests	FITC	PE	ECD	PC5.5	PC7	A647 ⁽⁴⁾	A700 ⁽¹⁾	APC-A750 ⁽³⁾	Pacific Blue*	Krome Orange
		CD45RA	CD25	-	CD39	CD4	FoxP3	-	CD3	Helios	CD45

* : available from July 2015. The final configuration of the product is subject to change until launch of the product.

(1) Alexa Fluor* 700

(2) APC-Alexa Fluor* 700

(3) APC-Alexa Fluor* 750

(4) Alexa Fluor* 647

For Research Use Only - Not for use in Diagnostic procedures

DuraClone IM Tubes

For Research Use Only - Not for use in Diagnostic procedures

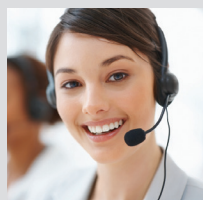
Premixed, dried reagent cocktails to standardize and streamline flow cytometry workflow for clinical research studies involving the identification of principal populations of the human immune system.

PN	Panels	488 nm					633 nm			405 nm	
		FITC	PE	ECD	PC5.5	PC7	APC A647 ⁽⁴⁾	A700 ⁽¹⁾ APC-A700 ⁽²⁾	APC-A750 ⁽³⁾	Pacific Blue**	Krome Orange
B53309	DuraClone IM Phenotyping Basic Tube RUO - 25 tests	CD16	CD56	CD19	-	CD14	CD4	CD8	CD3	-	CD45
B53318	DuraClone IM B cell Tube RUO - 25 tests	IgD	CD21	CD19	-	CD27	CD24		CD38	IgM	CD45
B53328	DuraClone IM T cell subsets Tube RUO - 25 tests	CD45RA	CCR7	CD28	PD1	CD27	CD4	CD8	CD3	CD57	CD45
B53351	DuraClone IM Dendritic cell Tube RUO - 25 tests	CD16	Lineage [§]	-	CD1c	CD11c	Clec9A	CD123	-	HLA-DR	CD45
B53340	DuraClone IM TCRs Tube RUO - 25 tests	TCR $\gamma\delta$	TCR $\alpha\beta$	HLA-DR	-	TCRV δ 1	CD4	CD8	CD3	TCRV δ 2	CD45
B53346*	DuraClone IM Treg Tube RUO - 25 tests	CD45RA	CD25	-	CD39	CD4	FoxP3	-	CD3	Helios	CD45

*: available from July 2015. The final configuration of the product is subject to change until launch of the product.

[§] CD3 / CD19 / CD20 / CD14 / CD56

⁽¹⁾ Alexa Fluor[®] 700 ⁽²⁾ APC-Alexa Fluor[®] 700 ⁽³⁾ APC-Alexa Fluor[®] 750 ⁽⁴⁾ Alexa Fluor[®] 647



Contact your sales representative or visit www.DuraClone.com/im



* Alexa Fluor and Pacific Blue are registered trademarks of Molecular Probes, Inc.

ECD and Krome Orange are trademarks of Beckman Coulter, Inc.

Beckman Coulter, DuraClone and the stylized logo are trademarks of Beckman Coulter, Inc. and are registered in the USPTO.

FLOW-895SB05.15-A

© 2015 Beckman Coulter, Inc. PRINTED IN U.S.A.



Life Sciences