

Datasheet: 4C001

Description:	FOUR-COLOR HUMAN CD45RA/CD62L/CD3/CD8 FLOW KIT			
Specificity:	CD45RA/CD62L/CD3/CD8			
Format:	4 Color			
Product Type:	Four Color Reagent			
Clone:	F8-11-13 / FMC46 / UCHT1 / LT8			
Isotype:	Cocktail			
Quantity:	50 TESTS/0.5ml			

Product Details

Applications	This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit <u>www.bio-rad-antibodies.com/protocols</u> .					
		Yes N	o Not Determined	Suggested Dilution		
	Flow Cytometry	•		Neat		
	•		d for use in a particular teo	•		
	-	mmended that th	cedures. Suggested worki e user titrates the product itive controls.	•		
Target Species	Human					
Product Form	Four color combination consisting of FITC, RPE, RPE-Cy5.5 and APC conjugated monoclonal antibodies mixed in optimal ratio - lyophilised.					
	FITC conjugated CD45RA (Mouse IgG1) RPE conjugated CD62L (Mouse IgG2b)					
	RPE-Cy5.5 conjugated CD3 (Mouse IgG1) APC conjugated CD8 (Mouse IgG1)					
Reconstitution	Reconstitute with 0.5ml distilled water					
Max Ex/Em	Fluorophore	Excitation Max	nm) Emission Max (nm)			
	APC	650	661			
	FITC	490	525			
	RPE 488nm laser	496	578			
	RPE 561nm laser	546	578			
	RPE-Cy5.5 488nm laser		695			
	RPE-Cy5.5 561nm laser	546	695			

Buffer Solution	Phosphate buffered saline
Preservative	0.09% Sodium Azide (NaN ₃)
Stabilisers	1% Bovine Serum Albumin
	5% Sucrose
External Database	
Links	UniProt:
	P08575 Related reagents
	P14151 Related reagents
	P07766 Related reagents
	P01732 Related reagents
	Entrez Gene:
	5788 PTPRC Related reagents
	6402 SELL Related reagents
	916 CD3E Related reagents
	925 CD8A Related reagents
Synonyms	CD45, LNHR, LYAM1, MAL, T3E
Specificity	 Four-Color Human CD45RA/CD62L/CD3/CD8 Flow Kit can be used for single-step identification of cytotoxic naïve T-cells (CD3+CD8+CD45RA+CD62L+) and cytotoxic memory T-cell subsets (CD3+CD8+CD45RA+CD62L-, CD3+CD8+CD45RA-CD62L- or CD3 +CD8+CD45RA-CD62L+). CD3 is a member of the immunoglobulin superfamily, which acts as a mediator of signal transduction, through association with the α/β or γ/δ T-cell receptor (TCR). Mammalian
	CD3 is a multimeric protein composed of four distinct polypeptide chains (ϵ , γ , δ , ζ), consisting of two heterodimers ($\epsilon\gamma$, $\epsilon\delta$) and one homodimer ($\zeta\zeta$). CD3 is expressed by a high-percentage of circulating peripheral T-cells and is considered a pan T-cell marker. Clone UCHT1 specifically recognizes the 20kDa CD3 ϵ chain.
	CD8 is a cell surface glycoprotein which acts as a co-receptor for MHC Class I, in conjunction with the T-cell receptor (TCR). CD8 exists as a dimer, composed of two α chains or more commonly as an $\alpha\beta$ heterodimer. The CD8 antigen is expressed on the human cytotoxic T-cell subset (CD3+CD8+) and on a subset of NK cells. Binding of CD8 to MHC class I, acts to enhance resting T-cell activation. Clone LT8 is specific for the CD8 α chain.
	CD45RA is an isoform of CD45, a member of the protein tyrosine phosphatase family, otherwise known as leucocyte common antigen (LCA), which acts as a positive regulator of T-cell co-activation, and is essential for the activation of T-cells through the antigen receptor. CD45RA is expressed by naïve T-cells and is down-regulated during activation.
	CD62L is a cell surface adhesion protein, and member of the selectin/LECAM family, otherwise known as leukocyte-endothelial cell adhesion molecule 1 (LECAM1), which acts

	as a mediator of lymphocyte homing to high endothelial venules (HEVs), within peripheral lymphoid tissues. CD62L is constitutively expressed by all leucocytes including naïve T-cells, but only by certain subpopulations of memory T-cells. Levels of serum CD62L can be used as an indicator of inflammation.
Flow Cytometry	Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul.
Storage	Prior to reconstitution store at +4°C. After reconstitution store at +4°C. DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #20487 available at: 20487: <u>https://www.bio-rad-antibodies.com/uploads/MSDS/20487.pdf</u>
Regulatory	For research purposes only

Related Products

Recommended Useful Reagents

FLOW CYTOMETRY ABSOLUTE COUNT STANDARD[™] (FCSC580) ERYTHROLYSE RED BLOOD CELL LYSING BUFFER (10x) (BUF04B) ERYTHROLYSE RED BLOOD CELL LYSING BUFFER (10x) (BUF04C) HUMAN SEROBLOCK (BUF070A) HUMAN SEROBLOCK (BUF070B)

North & South	Tel: +1 800 265 7376	Worldwide	Tel: +44 (0)1865 852 700	Europe	Tel: +49 (0) 89 8090 95 21
America	Fax: +1 919 878 3751		Fax: +44 (0)1865 852 739		Fax: +49 (0) 89 8090 95 50
	Email: antibody_sales_us@bio-ra	id.com	Email: antibody_sales_uk@bio-ra	d.com	Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M378617:210222'

Printed on 18 May 2021

© 2021 Bio-Rad Laboratories Inc | Legal | Imprint