# Datasheet: MCA461SBUV445 BATCH NUMBER 100007822

Description:	MOUSE ANTI HUMAN CD45RO:StarBright UltraViolet 445
Specificity:	CD45RO
Format:	StarBright UltraViolet 445
Product Type:	Monoclonal Antibody
Clone:	UCHL1
Isotype:	lgG2a
Quantity:	100 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-</u> rad-antibodies.com/protocols.					
		Yes N	o No	ot Determined	Suggested Dilution	
	Flow Cytometry				Neat	
	Where this product ha	Where this product has not been tested for use in a particular technique this does not				
necessarily exclude its use in such procedures. Suggested w				uggested workin	g dilutions are given as	
	a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.				for use in their own	
Target Species	Human					
Species Cross Reactivity	Reacts with: Chimpanzee, Marmoset <b>N.B.</b> Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.					
Product Form	Purified IgG conjugated to StarBright UltraViolet 445 - liquid					
Max Ex/Em	Fluorophore	Excitation Max	nm) Emis	sion Max (nm)		
	StarBright UltraViolet 445	347		440		
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant					

Buffer Solution	Phosphate buffered saline	
Preservative Stabilisers	0.09% Sodium Azide (NaN <sub>3</sub> ) 1% Bovine Serum Albumin 0.1% Pluronic F68 0.1% PEG 3350 0.05% Tween 20	
Immunogen	Human IL-2 dependent T cells	
External Database Links	UniProt: <u>P08575</u> <u>Related reagents</u> Entrez Gene: <u>5788</u> PTPRC <u>Related reagents</u>	
Synonyms	CD45	
Fusion Partners	Spleen cells from immunised mice were fused with cells of the mouse P3/NS1/1- myeloma cell line	-Ag4-1
Specificity	<ul> <li>Mouse anti Human CD45RO monoclonal antibody, clone UCHL1 recognizes molecular weight isoform (180 kDa) of the leucocyte common antigen (LCA). The is expressed by a functional subset of T cells with memory phenotype.</li> <li>In peripheral blood Mouse anti Human CD45RO, clone UCHL1 stains 40-80% of lymphocytes and all monocytes and granulocytes.</li> </ul>	e antigen
Flow Cytometry	Use 5ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul. Best practic suggest a 5 minutes centrifugation at 6,000g prior to sample application.	es
References	<ol> <li>Norton, A.J. <i>et al.</i> (1986) Monoclonal antibody (UCHL1) that recognises normal neoplastic T cells in routinely fixed tissues. J Clin Pathol. 39 (4): 399-405.</li> <li>Terry, L.A. <i>et al.</i> (1987) Phenotypic heterogeneity of the CD4+ and CD8+ substitue Leucocyte Typing III. McMichael, A.J., Beverley, P.C.L. <i>et al.</i> eds. University Pres 225-7.</li> <li>Akbar, A.N. <i>et al.</i> (1988) Loss of CD45R and gain of UCHL1 reactivity is a fear primed T cells. J Immunol. 140 (7): 2171-8.</li> <li>Beverley, P.C.L. <i>et al.</i> (1988) Phenotypic diversity of the CD45 antigen and its to function. Immunology, Suppl. 1: 3-5.</li> <li>Merkenschlager, M. <i>et al.</i> (1988) Limiting dilution analysis of proliferative response of differential CD45 expression in T cell memory formation. Eur J Immunol. 18 (1653-61.</li> <li>Terry, L.A. <i>et al.</i> (1988) The monoclonal antibody, UCHL1, recognizes a 180,0 component of the human leucocyte-common antigen, CD45. Immunology. 64 (2) 7. Cavers, M. <i>et al.</i> (2002) Differential expression of beta1 and beta2 integrins and setal setal.</li> </ol>	sets. ss. pp iture of relation onses in lications <u>11):</u> 000 MW <u>: 331-6.</u>

	L-selectin on CD4+ and CD8+ T lymphocytes in human blood: comparative analysis between isolated cells, whole blood samples and cryopreserved preparations. <u>Clin Exp</u> Immunol. 127: 60-5.
	<ul> <li>8. Leigh, J.E. <i>et al.</i> (2006) Characterization of the immune status of CD8+ T cells in oral lesions of human immunodeficiency virus-infected persons with oropharyngeal Candidiasis. <u>Clin Vaccine Immunol. 13: 678-83.</u></li> <li>9. Nistala, K. <i>et al.</i> (2008) Interleukin-17-producing T cells are enriched in the joints of children with arthritis, but have a reciprocal relationship to regulatory T cell numbers. <u>Arthritis Rheum. 58: 875-87.</u></li> <li>10. Hutnick, N.A. <i>et al.</i> (2010) Vaccination with Ad5 vectors expands Ad5-specific CD8 T cells without altering memory phenotype or functionality. <u>PLoS One. 5: e14385.</u></li> <li>11. Liu Y <i>et al.</i> (2015) Fractionation of human spermatogenic cells using STA-PUT gravity sedimentation and their miRNA profiling. <u>Sci Rep. 5: 8084.</u></li> <li>12. Wilson, C.L. <i>et al.</i> (2015) Ubiquitin C-terminal hydrolase 1: A novel functional marker for liver myofibroblasts and a therapeutic target in chronic liver disease. <u>J Hepatol. 63 (6): 1421-8.</u></li> </ul>
Further Reading	1. Beverley, P.C. (1987) Human T cell subsets. Immunol Lett. 14 (4): 263-7.
Storage	Store at +4°C. DO NOT FREEZE. This product should be stored undiluted.
Guarantee	12 months from date of despatch
Acknowledgements	This product is covered by U.S. Patent No. 10,150,841 and related U.S. and foreign counterparts
Health And Safety Information	Material Safety Datasheet documentation #20471 available at: https://www.bio-rad-antibodies.com/SDS/MCA461SBUV445 20471
Regulatory	For research purposes only
Related Produc	xts

## **Recommended Useful Reagents**

### 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	d.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 'M395185:220321'

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