

Datasheet: MCA461SBY800

Description:	MOUSE ANTI HUMAN CD45RO:StarBright Yellow 800		
Specificity:	CD45RO		
Format:	StarBright Yellow 800		
Product Type:	Monoclonal Antibody		
Clone:	UCHL1		
Isotype:	IgG2a		
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 www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	•			Neat

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working 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.

Target Species	Human			
Species Cross	Reacts with: Chimpar			_
Reactivity	reactivity is derived fr	om testing within our I	ons may vary between sp aboratories, peer-reviewe ors. Please refer to refere	ed publications or
Product Form	Purified IgG conjugat	ed to StarBright Yellov	/ 800 - liquid	
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)	
	StarBright Yellow 800	549	788	
Preparation	Purified IgG prepared supernatant	d by affinity chromatog	raphy on Protein A from t	issue culture
Buffer Solution	Phosphate buffered s	saline		

Preservative Stabilisers

0.09% Sodium Azide (NaN₃)1% Bovine Serum Albumin

0.1% Pluronic F680.1% PEG 33500.05% Tween 20

Immunogen

Human IL-2 dependent T cells

External Database Links

UniProt:

P08575 Related reagents

Entrez Gene:

5788 PTPRC Related reagents

Synonyms

CD45

Fusion Partners

Spleen cells from immunised mice were fused with cells of the mouse P3/NS1/1-Ag4-1 myeloma cell line

Specificity

Mouse anti Human CD45RO monoclonal antibody, clone UCHL1 recognizes the low molecular weight isoform (180 kDa) of the leucocyte common antigen (LCA). The antigen is expressed by a functional subset of T cells with memory phenotype.

In peripheral blood Mouse anti Human CD45RO, clone UCHL1 stains 40-80% of lymphocytes and all monocytes and granulocytes.

Flow Cytometry

Use 5μ I of the suggested working dilution to label 10^6 cells in 100μ I. Best practices suggest a 5 minutes centrifugation at 6,000g prior to sample application.

References

- 1. Norton, A.J. *et al.* (1986) Monoclonal antibody (UCHL1) that recognises normal and neoplastic T cells in routinely fixed tissues. J Clin Pathol. 39 (4): 399-405.
- 2. Terry. L.A. *et al.* (1987) Phenotypic heterogeneity of the CD4+ and CD8+ subsets. Leucocyte Typing III. McMichael, A.J., Beverley, P.C.L. *et al.* eds. University Press. pp 225-7.
- 3. Akbar, A.N. *et al.* (1988) Loss of CD45R and gain of UCHL1 reactivity is a feature of primed T cells. <u>J Immunol</u>. 140 (7): 2171-8.
- 4. Beverley, P.C.L. *et al.* (1988) Phenotypic diversity of the CD45 antigen and its relation to function. <u>Immunology, Suppl. 1: 3-5.</u>
- 5. Merkenschlager, M. *et al.* (1988) Limiting dilution analysis of proliferative responses in human lymphocyte populations defined by the monoclonal antibody UCHL1: implications for differential CD45 expression in T cell memory formation. <u>Eur J Immunol. 18 (11):</u> 1653-61.
- 6. Terry, L.A. *et al.* (1988) The monoclonal antibody, UCHL1, recognizes a 180,000 MW component of the human leucocyte-common antigen, CD45. <u>Immunology. 64 (2): 331-6.</u>
- 7. Cavers, M. *et al.* (2002) Differential expression of beta1 and beta2 integrins and L-selectin on CD4+ and CD8+ T lymphocytes in human blood: comparative analysis between isolated cells, whole blood samples and cryopreserved preparations. Clin Exp

Immunol. 127: 60-5.

- 8. Leigh, J.E. *et al.* (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.</u> 13: 678-83.
- 9. Nistala, K. *et al.* (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>
- 10. Hutnick, N.A. *et al.* (2010) Vaccination with Ad5 vectors expands Ad5-specific CD8 T cells without altering memory phenotype or functionality. <u>PLoS One. 5: e14385.</u>
- 11. Liu Y *et al.* (2015) Fractionation of human spermatogenic cells using STA-PUT gravity sedimentation and their miRNA profiling. Sci Rep. 5: 8084.
- 12. Wilson, C.L. *et al.* (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):</u> 1421-8.

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/MCA461SBY800 20471
Regulatory	For research purposes only

Related Products

Recommended Useful Reagents

HUMAN SEROBLOCK (BUF070A) HUMAN SEROBLOCK (BUF070B)

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Worldwide

Tel: +44 (0)1865 852 700

Europe Tel: +49 (0) 89 8090 95 21

Fax: +1 919 878 3751

Fax: +44 (0)1865 852 739

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_us@bio-rad.com

Email: antibody_sales_uk@bio-rad.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 'M419017:230510'

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