

Datasheet: MCA461SBUV575

Description:	MOUSE ANTI HUMAN CD45RO:StarBright UltraViolet 575
Specificity:	CD45RO
Format:	StarBright UltraViolet 575
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 Reactivity	reactivity is derived for	rity and working condition testing within our l	aboratories, peer-r	veen species. Cross reviewed publications or references indicated for
Product Form	Purified IgG conjugat	ted to StarBright UltraV	iolet 575 - liquid	
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (ni	m)
	StarBright UltraViolet 575	340	569	
Preparation	Purified IgG prepared supernatant	d by affinity chromatog	raphy on Protein A	from tissue culture
Buffer Solution	Phosphate buffered s	saline		

Pr	es	erv	⁄ati	ve
St	ab	ilis	ers	\$

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 5ul of the suggested working dilution to label 10⁶ cells in 100ul. 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. <u>J Clin Pathol. 39 (4): 399-405.</u>
- 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. J Immunol. 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. <u>Clin Exp</u>

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. Clin Vaccine Immunol. 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. Arthritis Rheum. 58: 875-87.
- 10. Hutnick, N.A. et al. (2010) Vaccination with Ad5 vectors expands Ad5-specific CD8 T cells without altering memory phenotype or functionality. PLoS One. 5: e14385.
- 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. J Hepatol. 63 (6): 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/MCA461SBUV575 20471
Regulatory	For research purposes only

Related Products

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

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Email: antibody_sales_us@bio-rad.com

Email: antibody_sales_uk@bio-rad.com

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M403716:220728'

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