

Datasheet: MCA345A647

BATCH NUMBER 1807

Description:	RAT ANTI HUMAN CD45:Alexa Fluor® 647
Specificity:	CD45
Other names:	LCA
Format:	ALEXA FLUOR® 647
Product Type:	Monoclonal Antibody
Clone:	YTH24.5
Isotype:	lgG2b
Quantity:	100 TESTS/1ml

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 - 1/10

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					
Product Form	Purified IgG conjug	Purified IgG conjugated to Alexa Fluor 647 - liquid				
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm			
	Alexa Fluor®647	650	665			
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue cu supernatant					
Buffer Solution	Phosphate buffered saline					
Preservative	0.09% Sodium Azio	de (NaN ₃)				
Stabilisers	1% Bovine Serum A	1% Bovine Serum Albumin				
Approx. Protein	IgG concentration 0	0.05 mg/ml				

Concentrations **Immunogen** Human T lymphocytes. **External Database UniProt:** Links P08575 Related reagents **Entrez Gene:** 5788 PTPRC Related reagents **Synonyms CD45 Fusion Partners** Spleen cells from an immunised DA rat were fused with cells of the rat Y3/Ag1.2.3 myeloma cell line. **Specificity** Rat anti Human CD45 antibody, clone YTH24.5 recognizes the human leukocyte common antigen CD45, expressed on all cells of haematopoietic origin except for erythrocytes. The isolation and characterisation of this cell line was carried out with the help of funds supplied by the Medical Research Council, United Kingdom. **Flow Cytometry** Use 10ul of the suggested working dilution to label 10⁶ cells in 100ul References 1. Bindon, C.I. et al. (1985) Therapeutic potential of monoclonal antibodies to the leukocyte-common antigen. Synergy and interference in complement-mediated lysis. Transplantation. 40 (5): 538-44. 2. Byeon, Y. et al. (2015) Isolation of nucleated red blood cells in maternal blood for Non-invasive prenatal diagnosis. Biomed Microdevices. 17 (6): 118. 3. Gossart, A. et al. (2019) Mitigation of monocyte driven thrombosis on cobalt chrome surfaces in contact with whole blood by thin film polar/hydrophobic/ionic polyurethane coatings. Biomaterials. 217: 119306. **Storage** Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use Guarantee

Acknowledgements

This product is provided under an intellectual property licence from Life Technologies Corporation. The transfer of this product is contingent on the buyer using the purchased product solely in research, excluding contract research or any fee for service research, and the buyer must not sell or otherwise transfer this product or its components for (a) diagnostic, therapeutic or prophylactic purposes; (b) testing, analysis or screening

12 months from date of despatch

services, or information in return for compensation on a per-test basis; (c) manufacturing or quality assurance or quality control, or (d) resale, whether or not resold for use in research. For information on purchasing a license to this product for purposes other than as described above, contact Life Technologies Corporation, 5791 Van Allen Way, Carlsbad CA 92008 USA or outlicensing@thermofisher.com

Health And Safety Information

Material Safety Datasheet documentation #10041 available at:

https://www.bio-rad-antibodies.com/SDS/MCA345A647

10041

Regulatory For research purposes only

Related Products

Recommended Negative Controls

RAT IgG2b NEGATIVE CONTROL: Alexa Fluor® 647 (MCA6006A647)

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 Fax: +49 (0) 89 8090 95 50

America Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Fax: +44 (0)1865 852 739
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

'M354357'190704'

Printed on 02 Feb 2024

© 2024 Bio-Rad Laboratories Inc | Legal | Imprint