

Datasheet: MCA345A647

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:	IgG2b
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 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 culture supernatant		
Buffer Solution	Phosphate buffered saline		
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃) 1% Bovine Serum Albumin		
Approx. Protein Concentrations	IgG concentration 0.05 mg/ml		

Immunogen	Human T lymphocytes.
External Database Links	<p>UniProt: P08575 Related reagents</p> <p>Entrez Gene: 5788 PTPRC Related reagents</p>
Synonyms	CD45
Fusion Partners	Spleen cells from an immunized DA rat were fused with cells of the rat Y3/Ag1.2.3 myeloma cell line.
Specificity	<p>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.</p> <p>The isolation and characterisation of this cell line was carried out with the help of funds supplied by the Medical Research Council, United Kingdom.</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 10^6 cells in 100ul
References	<ol style="list-style-type: none"> 1. Bindon, C.I. <i>et al.</i> (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. <i>et al.</i> (2015) Isolation of nucleated red blood cells in maternal blood for Non-invasive prenatal diagnosis. Biomed Microdevices. 17 (6): 118. 3. Thiele, G.M. <i>et al.</i> (2015) Malondialdehyde-acetaldehyde adducts and anti-malondialdehyde-acetaldehyde antibodies in rheumatoid arthritis. Arthritis Rheumatol. 67 (3): 645-55. 4. Gossart, A. <i>et al.</i> (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. 5. Moran, M. <i>et al.</i> (2022) Lipoteichoic acid and molecular weight of hyaluronic acid could explain the late inflammatory response trigger by hyaluronic acid fillers. J Cosmet Dermatol. 21 (11): 5610-3. 6. Tiraihi, T. <i>et al.</i> (2023) A Sequential Culturing System for Generating Epithelial-Like Stem Cells from Human Mesenchymal Stem Cells Derived from Adipose Tissue Cell and Tissue Biology. 17 (6): 639-52.
Storage	<p>This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.</p>

Guarantee 12 months from date of despatch

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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 \(BUF070B\)](#)

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