

Datasheet: MCA2280A647T

Description:	RAT ANTI MOUSE CD5:Alexa Fluor® 647
Specificity:	CD5
Other names:	LYT-1
Format:	ALEXA FLUOR® 647
Product Type:	Monoclonal Antibody
Clone:	YTS 121.5.2
Isotype:	IgG2b
Quantity:	25 TESTS/0.25ml

Product Details

RRID AB_2075304

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 - 1/5

Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

Target Species Mouse

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 0.09% Sodium Azide
Stabilisers 1% Bovine Serum Albumin

Approx. Protein Concentrations IgG concentration 0.05 mg/ml

Immunogen CBA mouse thymocytes.

External Database Links **UniProt:**

[P13379](#) [Related reagents](#)

Entrez Gene:

[12507](#) Cd5 [Related reagents](#)

Synonyms	Ly-1
-----------------	------

Fusion Partners	Spleen cells from immunised DA Rats were fused with cells of the rat Y3Ag1.2.3 myeloma cell line.
------------------------	---

Specificity	<p>Rat anti Mouse CD5 antibody, clone YTS 121.5.2 recognizes murine CD5 (Lyt-1) a cell surface glycoprotein expressed by T-lymphocytes.</p> <p>Studies suggest that CD5 plays an important role in the regulation of immune tolerance and lymphocyte selection.</p> <p>Rat anti Mouse CD5 antibody, clone YTS 121.5.2 is suitable for T-cell depletion <i>in vivo</i> (Cobbold et al. 1984).</p>
--------------------	---

Flow Cytometry	<p>Use 10ul of the suggested working dilution to label 10⁶ cells in 100ul.</p> <p>The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity fc receptors. This may be reduced by using SeroBlock FcR (BUF041A/B).</p>
-----------------------	--

References	<ol style="list-style-type: none">Cobbold, S.P. <i>et al.</i> (1984) Therapy with monoclonal antibodies by elimination of T-cell subsets <i>in vivo</i>. Nature. 312 (5994): 548-51.Michel, B. <i>et al.</i> (2012) Incunabular immunological events in prion trafficking. Sci Rep. 2: 440.
-------------------	--

Storage	<p>Store at +4°C or at -20°C if preferred.</p> <p>This product should be stored undiluted.</p> <p>Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
----------------	--

Shelf Life	18 months from date of despatch.
-------------------	----------------------------------

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 purchase 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 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: 10041: https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf
--------------------------------------	--

Regulatory	For research purposes only
-------------------	----------------------------

North & South America Tel: +1 800 265 7376
Fax: +1 919 878 3751
Email: antibody_sales_us@bio-rad.com

Worldwide Tel: +44 (0)1865 852 700
Fax: +44 (0)1865 852 739
Email: antibody_sales_uk@bio-rad.com
'M343116:190110'

Europe Tel: +49 (0) 89 8090 95 21
Fax: +49 (0) 89 8090 95 50
Email: antibody_sales_de@bio-rad.com

Printed on 10 Jan 2019

© 2019 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)