

Datasheet: MCA2280A647

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:	100 TESTS/1ml

Product Details

RRID AB_322458

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
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Fusion Partners	Spleen cells from immunised DA Rats were fused with cells of the rat Y3Ag1.2.3 myeloma cell line.
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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>
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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>
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References	<ol style="list-style-type: none">1. 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): 548-51.2. Michel, B. <i>et al.</i> (2012) Incunabular immunological events in prion trafficking. Sci Rep. 2: 440.
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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>
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Shelf Life	18 months from date of despatch.
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Health And Safety Information	<p>Material Safety Datasheet documentation #10041 available at: 10041: https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf</p>
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Regulatory	For research purposes only
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Related Products

Recommended Useful Reagents

[MOUSE SEROBLOCK FcR \(BUF041A\)](#)

[MOUSE SEROBLOCK FcR \(BUF041B\)](#)

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'M341574:190109'

Printed on 10 Jan 2019

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