



## Datasheet: MCA755SBY575

**BATCH NUMBER 100007240**

<b>Description:</b>	MOUSE ANTI HUMAN CD27:StarBright Yellow 575
<b>Specificity:</b>	CD27
<b>Format:</b>	StarBright Yellow 575
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	LT27
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	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](http://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** Reacts with: Cynomolgus monkey, Rhesus Monkey, Sheep  
**N.B.** Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

**Product Form** Purified IgG conjugated to StarBright Yellow 575 - liquid

Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	StarBright Yellow 575	548	579

**Preparation** Purified IgG prepared by affinity chromatography on DEAE from ascites

**Buffer Solution** Phosphate buffered saline

<b>Preservative</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Stabilisers</b>	1% Bovine Serum Albumin 0.1% Pluronic F68 0.1% PEG 3350 0.05% Tween 20
<b>Immunogen</b>	Normal human blood lymphocytes.
<b>External Database Links</b>	<b>UniProt:</b> <a href="#">P26842</a> <a href="#">Related reagents</a>  <b>Entrez Gene:</b> <a href="#">939</a> CD27 <a href="#">Related reagents</a>
<b>Synonyms</b>	TNFRSF7
<b>Fusion Partners</b>	Spleen cells from immunized mice were fused with cells of the P3. X 63-Ag8-653 mouse myeloma cell line.
<b>Specificity</b>	<b>Mouse anti human CD27, clone LT27</b> , recognizes the human T-cell activation antigen, CD27. This antigen is expressed on activated T lymphocytes and belongs to a family of proteins associated with the nerve growth factor receptor. CD27 is expressed by thymocytes and peripheral T cells and also by EBV transformed B cell lines.  Mouse anti human CD27, clone LT27 precipitates a ~55 kDa protein under reducing conditions or a ~120 kDa protein under non-reducing conditions.
<b>Flow Cytometry</b>	Use 5ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul. Best practices suggest a 5 minutes centrifugation at 6,000g prior to sample application.
<b>References</b>	<ol style="list-style-type: none"> <li>1. Ravoet, A.M. <i>et al.</i> (1989) CD25 mAb: epitopes recognised, effect on lymphocyte activation, mediation of ADCC in Leucocyte Typing IV: White Cell Differentiation Antigens Eds Knapp, W. <i>et al.</i> Oxford University Press pp 408-411.</li> <li>2. Boxall, S. <i>et al.</i> (2004) Abnormal cell surface antigen expression in individuals with variant CD45 splicing and histiocytosis. <a href="#">Pediatr Res. 55 (3): 478-84.</a></li> <li>3. Griebel, P.J. <i>et al.</i> (2007) Cross-reactivity of mAbs to human CD antigens with sheep leukocytes. <a href="#">Vet Immunol Immunopathol. 119: 115-22.</a></li> <li>4. Becker, P.D. <i>et al.</i> (2010) Generation of Human Antigen-Specific Monoclonal IgM Antibodies Using Vaccinated "Human Immune System" Mice <a href="#">PLoS One. 5(10). pii: e13137.</a></li> <li>5. van Zelm, M.C. <i>et al.</i> (2007) Replication history of B lymphocytes reveals homeostatic proliferation and extensive antigen-induced B cell expansion. <a href="#">J Exp Med. 204: 645-55.</a></li> <li>6. Steger, B. <i>et al.</i> (2014) CD4(+)and CD8(+)T-cell reactions against leukemia-associated- or minor-histocompatibility-antigens in AML-patients after allogeneic SCT. <a href="#">Immunobiology. 219 (4): 247-60.</a></li> </ol>
<b>Storage</b>	Store at +4°C. DO NOT FREEZE.

This product should be stored undiluted.

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<b>Guarantee</b>	12 months from date of despatch
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<b>Acknowledgements</b>	This product is covered by U.S. Patent No. 10,150,841 and related U.S. and foreign counterparts
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #20471 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA755SBY575">https://www.bio-rad-antibodies.com/SDS/MCA755SBY575</a> 20471
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<b>Regulatory</b>	For research purposes only
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## Related Products

### Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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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](https://www.bio-rad-antibodies.com/datasheets)

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