

Datasheet: MCA755SBY720

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| Description: | MOUSE ANTI HUMAN CD27:StarBright Yellow 720 |
| Specificity: | CD27 |
| Format: | StarBright Yellow 720 |
| Product Type: | Monoclonal Antibody |
| Clone: | LT27 |
| Isotype: | IgG2a |
| Quantity: | 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.

| | 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 720 - liquid

| Max Ex/Em | Fluorophore | Excitation Max (nm) | Emission Max (nm) |
|-----------|-----------------------|---------------------|-------------------|
| | StarBright Yellow 720 | 549 | 719 |

Preparation

Purified IgG prepared by affinity chromatography on DEAE from ascites

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.09% Sodium Azide (NaN₃)

1% Bovine Serum Albumin
0.1% Pluronic F68
0.1% PEG 3350
0.05% Tween 20

Immunogen Normal human blood lymphocytes.

External Database Links

UniProt:

[P26842](#) [Related reagents](#)

Entrez Gene:

[939](#) CD27 [Related reagents](#)

Synonyms TNFRSF7

Fusion Partners Spleen cells from immunized mice were fused with cells of the P3. X 63-Ag8-653 mouse myeloma cell line.

Specificity **Mouse anti human CD27, clone LT27**, 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.

Flow Cytometry Use 5µl of the suggested working dilution to label 10⁶ cells in 100µl. Best practices suggest a 5 minutes centrifugation at 6,000g prior to sample application.

References

1. Ravoet, A.M. *et al.* (1989) CD25 mAb: epitopes recognised, effect on lymphocyte activation, mediation of ADCC in Leucocyte Typing IV: White Cell Differentiation Antigens Eds Knapp, W. *et al.* Oxford University Press pp 408-411.
 2. Boxall, S. *et al.* (2004) Abnormal cell surface antigen expression in individuals with variant CD45 splicing and histiocytosis. [Pediatr Res. 55 \(3\): 478-84.](#)
 3. Griebel, P.J. *et al.* (2007) Cross-reactivity of mAbs to human CD antigens with sheep leukocytes. [Vet Immunol Immunopathol. 119: 115-22.](#)
 4. Becker, P.D. *et al.* (2010) Generation of Human Antigen-Specific Monoclonal IgM Antibodies Using Vaccinated "Human Immune System" Mice [PLoS One. 5\(10\). pii: e13137.](#)
 5. van Zelm, M.C. *et al.* (2007) Replication history of B lymphocytes reveals homeostatic proliferation and extensive antigen-induced B cell expansion. [J Exp Med. 204: 645-55.](#)
 6. Steger, B. *et al.* (2014) CD4(+) and CD8(+) T-cell reactions against leukemia-associated or minor-histocompatibility-antigens in AML-patients after allogeneic SCT. [Immunobiology. 219 \(4\): 247-60.](#)
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Storage Store at +4°C. DO NOT FREEZE.
This product should be stored undiluted.

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| Guarantee | 12 months from date of despatch |
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| Acknowledgements | This product is covered by U.S. Patent No. 10,150,841 and related U.S. and foreign counterparts |
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| Health And Safety Information | Material Safety Datasheet documentation #20471 available at: https://www.bio-rad-antibodies.com/SDS/MCA755SBY720 20471 |
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|-------------------|----------------------------|
| Regulatory | For research purposes only |
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Related Products

Recommended Useful Reagents

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

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

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|----------------------------------|---|------------------|---|---------------|---|
| 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 | Europe | Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com |
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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
'M418425:230420'

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