

Datasheet: MCA755XZ

Description:	MOUSE ANTI HUMAN CD27:Preservative Free
Specificity:	CD27
Format:	Preservative Free
Product Type:	Monoclonal Antibody
Clone:	LT27
Isotype:	IgG2a
Quantity:	1 mg

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	▪			1/100
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation	▪			
Western Blotting			▪	

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. It is recommended that the user titrates the antibody 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 - liquid

Preparation

Purified IgG prepared by ion exchange chromatography

Buffer Solution

Phosphate buffered saline

Preservative

None present

Stabilisers

Approx. Protein Concentrations IgG concentration 1.0 mg/ml

Immunogen Normal human blood lymphocytes.

External Database Links

UniProt:

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

Entrez Gene:

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

Synonyms TNFRSF7

RRID AB_322308

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 10ul of the suggested working dilution to label 10^6 cells in 100ul.

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 -20°C only.

This product should be stored undiluted.

Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10162 available at: 10162: https://www.bio-rad-antibodies.com/uploads/MSDS/10162.pdf
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (STAR70...)	FITC
Human Anti Mouse IgG2a (HCA037...)	HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®680 , DyLight®800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP

Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL \(MCA929\)](#)

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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