

## Datasheet: MCA4701PE

<b>Description:</b>	HAMSTER ANTI MOUSE CD27:RPE
<b>Specificity:</b>	CD27
<b>Format:</b>	RPE
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	LG.3A10
<b>Isotype:</b>	IgG
<b>Quantity:</b>	0.1 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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			1/5 - 1/20

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

Mouse

### Species Cross Reactivity

Reacts with: Human, Rat

**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 R. Phycoerythrin (RPE) - liquid

Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	RPE 488nm laser	496	578

### Preparation

Purified IgG prepared by affinity chromatography

### Buffer Solution

Phosphate buffered saline

### Preservative Stabilisers

<0.1% Sodium Azide (NaN<sub>3</sub>)

<b>Approx. Protein Concentrations</b>	IgG concentration 0.2mg/ml
<b>Immunogen</b>	Armenian hamster fibroblast line ARHO12 transfected with mouse CD27 cDNA.
<b>External Database Links</b>	<p><b>UniProt:</b></p> <p><a href="#">P41272</a>      <a href="#">Related reagents</a></p> <p><a href="#">P26842</a>      <a href="#">Related reagents</a></p> <p><a href="#">Q501W2</a>      <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b></p> <p><a href="#">21940</a> Cd27 <a href="#">Related reagents</a></p> <p><a href="#">939</a> CD27 <a href="#">Related reagents</a></p>
<b>Synonyms</b>	Tnfrsf7, TNFRSF7
<b>Fusion Partners</b>	Armenian hamster spleen cells from immunized animals were fused with cells of the murine SP2/0 non-secreting myeloma.
<b>Specificity</b>	<p><b>Hamster anti Mouse CD27 antibody, clone LG.3A10</b> recognizes mouse, rat and human CD27, a member of the tumor necrosis factor receptor superfamily. It is expressed in the thymus and spleen, but not in non-lymphoid tissues. CD27 acts as a ligand for CD70, which is expressed in T and B cells, and acts as a co-stimulatory signal in lymphocyte proliferation and immunoglobulin production.</p> <p>CD27 lacks a death domain in its short cytoplasmic tail, but can induce apoptosis by binding with the apoptosis regulatory protein Siva (also known as CD27-binding protein).</p>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 1x10 <sup>6</sup> cells in 100ul.
<b>References</b>	<ol style="list-style-type: none"> <li>Gravestien, L.A. <i>et al.</i> (1996) CD27 cooperates with the pre-T cell receptor in the regulation of murine T cell development. <a href="#">J Exp Med. 184 (2): 675-85.</a></li> <li>Sakanishi, T. &amp; Yagita, H. (2010) Anti-tumor effects of depleting and non-depleting anti-CD27 monoclonal antibodies in immune-competent mice. <a href="#">Biochem Biophys Res Commun. 393 (4): 829-35.</a></li> </ol>
<b>Storage</b>	<p>Store at +4°C. DO NOT FREEZE.</p> <p>This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: 10040: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf</a>
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Negative Controls

[HAMSTER \(ARMENIAN\) IgG NEGATIVE CONTROL:RPE \(MCA2356PE\)](#)

### Recommended Useful Reagents

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

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

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto: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](mailto: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](mailto:antibody_sales_de@bio-rad.com)

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)

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