

Datasheet: MCA4701PE

Description:	HAMSTER ANTI MOUSE CD27:RPE
Specificity:	CD27
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	LG.3A10
Isotype:	IgG
Quantity:	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.

	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 (NaN₃)

Approx. Protein Concentrations	IgG concentration 0.2mg/ml
Immunogen	Armenian hamster fibroblast line ARHO12 transfected with mouse CD27 cDNA.
External Database Links	<p>UniProt:</p> <p>P41272 Related reagents</p> <p>P26842 Related reagents</p> <p>Q501W2 Related reagents</p> <p>Entrez Gene:</p> <p>21940 Cd27 Related reagents</p> <p>939 CD27 Related reagents</p>
Synonyms	Tnfrsf7, TNFRSF7
Fusion Partners	Armenian hamster spleen cells from immunized animals were fused with cells of the murine SP2/0 non-secreting myeloma.
Specificity	<p>Hamster anti Mouse CD27 antibody, clone LG.3A10 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>
Flow Cytometry	Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul.
References	<p>1. Gravestein, L.A. <i>et al.</i> (1996) CD27 cooperates with the pre-T cell receptor in the regulation of murine T cell development. J Exp Med. 184 (2): 675-85.</p> <p>2. Sakanishi, T. & Yagita, H. (2010) Anti-tumor effects of depleting and non-depleting anti-CD27 monoclonal antibodies in immune-competent mice. Biochem Biophys Res Commun. 393 (4): 829-35.</p>
Storage	<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>
Guarantee	12 months from date of despatch
Health And Safety Information	<p>Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA4701PE</p> <p>10040</p>

Related Products

Recommended Negative Controls

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

Recommended Useful Reagents

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

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

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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

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