

## Datasheet: MCA1269APC

<b>Description:</b>	MOUSE ANTI HUMAN CD100:APC
<b>Specificity:</b>	CD100
<b>Format:</b>	APC
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	A8
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	100 TESTS

## 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 - 1/10

Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Human		
<b>Species Cross Reactivity</b>	Reacts with: Cynomolgus monkey, Rhesus Monkey <b>N.B.</b> Antibody reactivity and working conditions may vary between species.		
<b>Product Form</b>	Purified IgG conjugated to Allophycocyanin (APC) - lyophilised		
<b>Reconstitution</b>	Reconstitute with 1ml distilled water		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	APC	650	661
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant		
<b>Buffer Solution</b>	Phosphate buffered saline		
<b>Preservative</b>	0.09% Sodium Azide		
<b>Stabilisers</b>	1% Bovine Serum Albumin		
	5% Sucrose		
<b>Approx. Protein Concentrations</b>	IgG concentration 0.1 mg/ml		
<b>Immunogen</b>	Human PHA activated lymphocytes.		

<b>External Database Links</b>	<b>UniProt:</b> <a href="#">Q92854</a> <a href="#">Related reagents</a>  <b>Entrez Gene:</b> <a href="#">10507</a> SEMA4D <a href="#">Related reagents</a>
<b>Synonyms</b>	C9orf164, CD100, SEMAJ
<b>Fusion Partners</b>	Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS1 myeloma cell line.
<b>Specificity</b>	<b>Mouse anti Human CD100 antibody, clone A8</b> recognizes human Sepaphorin 4D, also known as CD100, A8, BB18 or GR3. CD100 is a 841 amino acid ~150 kDa homodimeric single pass type 1 transmembrane cell surface glycoprotein acting as a receptor for some members of the plexin family. CD100 is expressed at low levels by peripheral blood T cells, and at higher density on activated T cells and B cells, it is also expressed at high levels in fetal kidney with lower levels in fetal brain, liver and lung ( <a href="#">Maestrini et al. 1996</a> ).
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.
<b>References</b>	<ol style="list-style-type: none"> <li>1. Aversa, G.G. <i>et al.</i> (1989) Use of monoclonal antibodies to study <i>in vivo</i> and <i>in vitro</i>-activated lymphocytes. <a href="#">Transplant Proc. 21 (1 Pt 1): 349-50.</a></li> <li>2. Van Vliet, S. J. <i>et al.</i> (1995) Species cross reactivity (human-monkey-bovine) of the adhesion structure section mAb. Leucocyte Typing V. Oxford University Press p1607-8.</li> <li>3. Mizrahi, S. <i>et al.</i> (2007) CD100 on NK cells enhance IFN<math>\gamma</math> secretion and killing of target cells expressing CD72. <a href="#">PLoS One. 2 (9): e818.</a></li> <li>4. Yoshino, N. <i>et al.</i> (2000) Upgrading of flow cytometric analysis for absolute counts, cytokines and other antigenic molecules of cynomolgus monkeys (<i>Macaca fascicularis</i>) by using anti-human cross-reactive antibodies. <a href="#">Exp Anim. 49 (2): 97-110.</a></li> </ol>
<b>Storage</b>	Prior to reconstitution store at +4°C. After reconstitution store at +4°C. DO NOT FREEZE. 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.
<b>Shelf Life</b>	18 months from date of reconstitution.
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10075 available at: 10075: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf</a>
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:APC \(MCA928APC\)](#)

### Recommended Useful Reagents

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

HUMAN SEROBLOCK (BUF070B)

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