

## Datasheet: MCA1269F

<b>Description:</b>	MOUSE ANTI HUMAN CD100:FITC
<b>Specificity:</b>	CD100
<b>Format:</b>	FITC
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	A8
<b>Isotype:</b>	IgG1
<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	■			Neat

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 Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid from tissue culture supernatant.		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	FITC	490	525
<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		
<b>Approx. Protein Concentrations</b>	IgG concentration 0.1 mg/ml		
<b>Immunogen</b>	Human PHA activated lymphocytes.		

**External Database  
Links**

**UniProt:**

[Q92854](#)   [Related reagents](#)

**Entrez Gene:**

[10507](#)   SEMA4D   [Related reagents](#)

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**Synonyms**

C9orf164, CD100, SEMAJ

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**Fusion Partners**

Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS1 myeloma cell line.

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**Specificity**

**Mouse anti Human CD100 antibody, clone A8** 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 ([Maestrini \*et al.\* 1996](#)).

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**Flow Cytometry**

Use 10ul of the suggested working dilution to label 10<sup>6</sup> cells in 100ul.

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**References**

1. Aversa, G.G. *et al.* (1989) Use of monoclonal antibodies to study *in vivo* and *in vitro*-activated lymphocytes. [Transplant Proc. 21 \(1 Pt 1\): 349-50.](#)
2. Van Vliet, S. J. *et al.* (1995) Species cross reactivity (human-monkey-bovine) of the adhesion structure section mAb. Leucocyte Typing V. Oxford University Press p1607-8.
3. Mizrahi, S. *et al.* (2007) CD100 on NK cells enhance IFN $\gamma$  secretion and killing of target cells expressing CD72. [PLoS One. 2 \(9\): e818.](#)
4. Yoshino, N. *et al.* (2000) Upgrading of flow cytometric analysis for absolute counts, cytokines and other antigenic molecules of cynomolgus monkeys (*Macaca fascicularis*) by using anti-human cross-reactive antibodies. [Exp Anim. 49 \(2\): 97-110.](#)

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**Storage**

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost free freezers is not recommended. This product is photosensitive and should be protected from light.

Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Shelf Life**

18 months from date of despatch.

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**Health And Safety  
Information**

Material Safety Datasheet documentation #10041 available at:  
10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:FITC \(MCA928F\)](#)

## Recommended Useful Reagents

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

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

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

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