


# CD100 (Semaphorin-4D); Clone A8 (Concentrate)

<b>Availability/Contents:</b>	<u>Item #</u>	<u>Volume</u>
	RA0493-C.1	0.1 ml
	RA0493-C.5	0.5 ml
	RA0493-C1	1 ml

**Description:**

Species:	Mouse
Immunogen:	PHA stimulated human peripheral blood lymphocytes
Clone:	A8
Isotype:	IgG1, kappa
Entrez Gene ID:	10507
Hu Chromosome Loc.:	9q22.2
Synonyms:	COLL4; Collapsin4; GR3; M sema G; MSEMA; SEMA4D; Semacl2; SemaH; SEMAJ; Semaphorin C like 2; Semaphorin H; Semaphorin J; Semaphorin-4D; Semcl2
Mol. Weight of Antigen:	50kDa (Monomer)
Format:	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide.
Specificity:	Recognizes a homodimeric protein comprised of 50kDa subunits, identified as CD100.
Background:	CD100 is expressed on majority of haemopoietic cells (B, T, NK and myeloid cells) and is absent from bone marrow, erythrocytes, eosinophils and endothelial cells. Its expression is increased after PHA-activation. CD100 was shown to associate with different partner molecules in T cells such as CD45, a key molecule with protein tyrosine phosphatase activity involved in T-cell transduction, and a Serine kinase. It plays a role in homotypic cell adhesion and in T cell activation.
Species Reactivity:	Human, Monkey and Mouse. Others not-tested.
Positive Control:	Daudi, Raji, HUT-78, Kg1a, U937, and human lymphocytes. Human tonsils and lymph nodes.
Cellular Localization:	Cell surface.
Titer/ Working Dilution:	Flow Cytometry: 1-2 µg/million cells Immunofluorescence: 1-2 µg/ml Optimal dilution for a specific application should be determined by user.
Microbiological State:	This product is not sterile.

Storage: 2° C  8° C



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**CE**

EC REP

Emergo Europe  
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**Uses/Limitations:** Not to be taken internally.  
For Research Use Only.  
Do not use if reagent becomes cloudy.  
Do not use past expiration date.  
Non-Sterile.

**Ordering Information and Current Pricing at [www.scytek.com](http://www.scytek.com)**

**Procedure:**


1. Optimal dilution and procedure for a specific application should be determined by user.


**Precautions:** Contains Sodium Azide as a preservative (0.09% w/v).  
Do not pipette by mouth.  
Avoid contact of reagents and specimens with skin and mucous membranes.  
Avoid microbial contamination of reagents or increased nonspecific staining may occur.  
This product contains no hazardous material at a reportable concentration according to U.S. 29 CFR 1910.1200, OSHA Hazardous Communication Standard and EC Directive 91/155/EC.

**References:**

1. Hall K, et al. 1996. P. Natl. Acad. Sci. USA 93:11780.
2. Mizrahi S, et al. 2007. PLoS One. 2(9):e818.
3. Yoshino N, et al. 2000. Exp. Anim. (Tokyo) 49:97. (FC)
4. Schlossman SL Bloumsell W Gilks et al. eds. 1995. Leucocyte Typing V: White Cell Differentiation Antigens. Oxford University Press New York.
5. Bougeret CIG Mansur H Dastot et al. 1992. Increased surface expression of a newly identified 150 kDa dimer early after human T lymphocyte activation. J. Immunol. 148:318.
6. Knapp WB Dorken EP. Rieber et al, eds. 1989. Leucocyte Typing IV: White Cell Differentiation Antigens. Oxford University Press New York.

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Storage: 2° C  8° C



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