



CD100 (Semaphorin-4D); Clone 133-1C6 (Concentrate)

Availability/Contents:	<u>Item #</u>	<u>Volume</u>
	RA0492-C.1	0.1 ml
	RA0492-C.5	0.5 ml
	RA0492-C1	1 ml

Description:

Species:	Mouse
Immunogen:	PHA stimulated human peripheral blood lymphocytes.
Clone:	133-1C6
Isotype:	IgM, 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. Prepared in 10mM PBS with 0.05% BSA 0.05% azide.
Specificity:	Recognizes a homodimeric protein comprised of 50kDa subunits, identified as CD100 (Workshop VI; Code N-L026).
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 and Baboon. Does not react with horse. Others not-tested.
Positive Control:	Daudi, Raji, HUT-78, Kg1a, U937, and human lymphocytes. Human tonsil and lymph node.
Cellular Localization:	Cell surface.
Titer/ Working Dilution:	Immunohistochemistry (Frozen and Formalin-fixed): 0.5-1 µg/ml Flow Cytometry: 0.5-1 µg/million cells
Microbiological State:	This product is not sterile.

Storage: 2° C  8° C

 ScyTek Laboratories, Inc.
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Uses/Limitations: Not to be taken internally.
For Research Use Only.
This product is intended for qualitative immunohistochemistry with normal and neoplastic formalin-fixed, paraffin-embedded tissue sections, to be viewed by light microscopy.
Do not use if reagent becomes cloudy.
Do not use past expiration date.
Non-Sterile.

Ordering Information and Current Pricing at www.scytek.com

Procedure:

1. **Tissue Section Pretreatment (Optional):** Staining of formalin fixed, paraffin embedded tissue sections is significantly enhanced by pretreatment with Citrate Plus (ScyTek catalog# CPL500).
2. **Primary Antibody Incubation Time:** We suggest an incubation period of 30 minutes at room temperature. However, depending upon the fixation conditions and the staining system employed, optimal incubation should be determined by the user.
3. **Visualization:** For maximum staining intensity we recommend the “CRF Anti-Polyvalent HRP Polymer (DAB Lab Pack)” (ScyTek catalog# CPP125, see IFU for instructions).


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. Kishimoto T et al. (eds) Leukocyte Typing VI, Garland Publishing, New York, 1997.
2. Schlossman SF et al. (eds) Leucocyte Typing V Oxford University Press, Oxford. 1995.
3. Delaire S et al. CD100 is a leukocyte semaphorin. Cell Mol Life Sci 1998, 54(11):1265-1276.
4. Dorfman DM et al. The leukocyte semaphorin CD100 is expressed in most T-cell, but few B-cell, non-Hodgkin's lymphomas. Am J Pathol 1998, 153(1):255-262.
5. Herold C et al. CD100 is associated with CD45 at the surface of human T lymphocytes. Role in T cell homotypic adhesion. J Immunol 1996, 157(12):5262-5268.
6. Elhabazi A et al. The human semaphorin-like leukocyte cell surface molecule CD100 associates with a serine kinase activity. J Biol Chem 1997, 272(38):23515-23520.
7. Hall KT et al. Human CD100, a novel leukocyte semaphorin that promotes B-cell aggregation and differentiation. Proc Natl Acad Sci USA 1996, 93(21):11780-11785

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