

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

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

Description:

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| 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; MSEA; 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: | 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 (Required):** 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. 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.

Warranty:

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