



SEMA4D, CD100

Semaphorin 4D polyclonal antibody

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Box 1 | Basic Info

Cat. No.	ABP-PAB-10202
Animal ID	RC40104
Host	Rabbit
Reactivity	Human
Format	Purified
Accession number	NM_006378
Amount	100 µg

Alternative Name(s): CD100, SEMAJ, coll-4, M-sema?G, M-sema-G

Semaphorin 4D (SEMA4D), also called CD100, is expressed on leukemic & normal CD5+ B cells. Upon interaction between SEMA4D and Plexin-B1, both increase their proliferative activity and life span. The SEMA4D/Plexin-B1 crosstalk is not malignancy related but reproduces a mechanism used by normal CD5+ B cells.

Buffers

Purified rabbit polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column and eluted out with both high and low pH buffers and neutralized immediately after elution then followed by dialysis against PBS.

Immunogen

N/A

Application:

Tested by peptide-specific ELISA (1:1,000).

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C. Avoid repeated freeze-thaw cycles.

References:

1. Granziero L, Circosta P, Scielzo C, Frisaldi E, Stella S, Geuna M, Giordano S, Ghia P, Caligaris-Cappio F: CD100/Plexin-B1 interactions sustain proliferation and survival of normal and leukemic CD5+ B lymphocytes. *Blood* 101(5): 1962-1969 (2003).
2. Furuyama T, Inagaki S, Kosugi A, Noda S, Saitoh S, Ogata M, Iwahashi Y, Miyazaki N, Hamaoka T, Tohyama M: Identification of a novel transmembrane semaphorin expressed on lymphocytes. *J. Biol. Chem.* 271(52): 33376-33381 (1996).
3. Hall KT, Boumsell L, Schultze JL, Boussiotis VA, Dorfman DM, Cardoso AA, Bensussan A, Nadler LM, Freeman GJ: Human CD100, a novel leukocyte semaphorin that promotes B-cell aggregation and differentiation. *Proc. Natl. Acad. Sci. U S A.* 93(21): 11780-11785 (1996).