

Datasheet for ABIN968102

anti-SEMA4D/CD100 antibody (AA 721-861)

3 Images

1 Publication

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Overview

Quantity:	150 µg
Target:	SEMA4D/CD100 (SEMA4D)
Binding Specificity:	AA 721-861
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This SEMA4D/CD100 antibody is un-conjugated
Application:	Western Blotting (WB), Immunoprecipitation (IP), Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	Human CD100 aa. 721-861
Clone:	30-CD100
Isotype:	IgG1
Cross-Reactivity:	Mouse (Murine), Rat (Rattus)
Characteristics:	<ol style="list-style-type: none">1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.2. Source of all serum proteins is from USDA inspected abattoirs located in the United States.3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.4. Please refer to us for technical protocols.

Product Details

Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
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Target Details

Target:	SEMA4D/CD100 (SEMA4D)
Alternative Name:	CD100 (SEMA4D Products)
Background:	<p>CD100 was originally described as a 150 kDa surface T-cell antigen induced after T-cell activation. Human CD100 exhibits widespread gene expression but is most prominent in peripheral lymphocytes, thymus, skeletal muscle, and brain. The full CD100 protein is 862 amino acids with homolgy to the semaphorin family of proteins at its extracellular domain followed by a short Ig-like domain. The short cytoplasmic domain contains a putative tyrosine phosphorylation site which may be the site for association with intracellular kinases. Cells that overexpress CD100 induce a rapid aggregation of B cells and increase the CD90L-B cell aggregation. Because semaphorins are axon-guiding molecules for the nervous system, it has been proposed that CD100 may have a guidance role in the immune system.</p> <p>Synonyms: Semaphorin 4D, Sema 4D</p>
Molecular Weight:	150 kDa
Pathways:	Regulation of Cell Size

Application Details

Comment:	Related Products: ABIN967389
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C

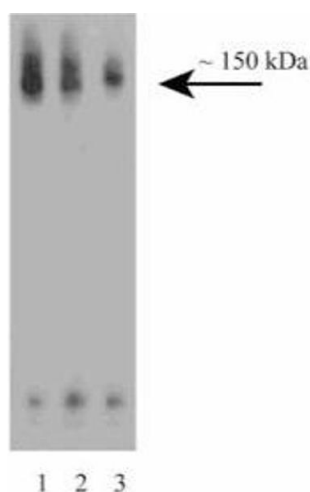
Handling

Storage Comment: Store undiluted at -20°C.

Publications

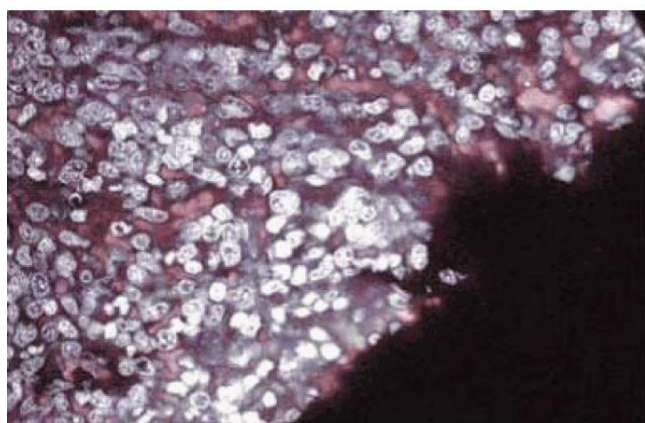
Product cited in: Hall, Boumsell, Schultze, Boussiotis, Dorfman, Cardoso, Bensussan, Nadler, Freeman: "Human CD100, a novel leukocyte semaphorin that promotes B-cell aggregation and differentiation." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 93, Issue 21, pp. 11780-5, (1996) ([PubMed](#)).

Images



Western Blotting

Image 1. Western blot analysis of CD100 on a Jurkat cell lysate (Human T-cell leukemia, ATCC TIB-152). 1 µg/mL (lane 1), 0.5 µg/mL (lane 2), 0.25 µg/mL (lane 3) of the mouse anti-CD100 antibody.



Immunofluorescence

Image 2. Immunofluorescence staining of rabbit spleen.

Image 3.

