

Datasheet for ABIN6939082
anti-SEMA4D/CD100 antibody



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Overview

Quantity:	100 µg
Target:	SEMA4D/CD100 (SEMA4D)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This SEMA4D/CD100 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Immunofluorescence (IF), Functional Studies (Func)

Product Details

Immunogen:	PHA stimulated human peripheral blood lymphocytes
Clone:	A8
Isotype:	IgG1
Specificity:	Recognizes a homodimeric protein comprised of 50 kDa subunits, identified as CD100. It 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.
Cross-Reactivity (Details):	Human, Monkey, Mouse,
Purification:	200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G.

Target Details

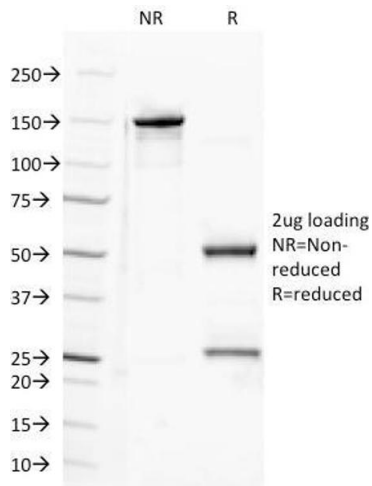
Target:	SEMA4D/CD100 (SEMA4D)
Alternative Name:	SEMA4D (SEMA4D Products)
Background:	COLL4, Collapsin4, GR3, M sema G, MSEMA, SEMA4D, Semacl2, SemaH, SEMAJ, Semaphorin C like 2, Semaphorin H, Semaphorin J, Semaphorin-4D, Semcl2,CD100 (Semaphorin-4D) Cellular localisation: Cell surface
Molecular Weight:	50kDa (Monomer)
Gene ID:	10507, 494406
UniProt:	Q92854
Pathways:	Regulation of Cell Size

Application Details

Application Notes:	Positive Control: Daudi, Raji, HUT-78, Kg1a, U937 and human lymphocytes. Human tonsils and lymph nodes. Known Application: Functional Studies (Order Ab without Azide),Flow Cytometry (1-2 µg/million cells), Immunofluorescence (1-2 µg/mL), Optimal dilution for a specific application should be determined.
Restrictions:	For Research Use only

Handling

Concentration:	200 µg/mL
Buffer:	Prepared in 10 mM PBS with 0.05 % BSA and 0.05 % 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:	4 °C,-80 °C
Storage Comment:	Antibody with azide - store at 2 to 8 °C. Antibody is stable for 24 months. Non-hazardous. Also available WITHOUT BSA & azide at 1.0mg/ml.
Expiry Date:	24 months



SDS-PAGE

Image 1. SDS-PAGE Analysis Purified CD100 Mouse Monoclonal Antibody (A8). Confirmation of Purity and Integrity of Antibody.