

**DATASHEET**

**CD100 Mouse Monoclonal Antibody(A8)**

CAT. NO. AMA03742

**KEY FEATURES**

Target	CD100	Source / Host	Mouse
Reactivity	Human	Clonality	Monoclonal
Applications	IF/ICC, FC	Conjugation	Unconjugated
Form / Buffer	Mouse IgG1 kappa. Liquid in PBS, pH 7.3, and 0.02% sodium azide.	Storage	at-20°C

**BACKGROUND**

Cell surface receptor for PLXNB1 and PLXNB2 that plays an important role in cell-cell signaling . Regulates GABAergic synapse development . Promotes the development of inhibitory synapses in a PLXNB1-dependent manner . Modulates the complexity and arborization of developing neurites in hippocampal neurons by activating PLXNB1 and interaction with PLXNB1 mediates activation of RHOA . Promotes the migration of cerebellar granule cells . Plays a role in the immune system; induces B-cells to aggregate and improves their viability (in vitro) . Induces endothelial cell migration through the activation of PTK2B/PYK2, SRC, and the phosphatidylinositol 3-kinase-AKT pathway .

**APPLICATION**

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

**PRODUCT OVERVIEW**

Description	Mouse monoclonal antibody to CD100
Specificity	Recognizes human CD100
Antibody Type	Primary antibody
Immunogen	Human PHA activated lymphocytes
Purification	The antibody was purified by affinity chromatography.
Form/Buffer	Mouse IgG1 kappa. Liquid in PBS, pH 7.3, and 0.02% sodium azide.
Alternative Names	C9orf164; CD100; SEMAJ; Semaphorin-4D; A8; BB18; GR3; CD100
Gene Symbol	SEMA4D
Entrez Gene	10507(Human)
SwissProt	Q92854(Human)

\*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact [info@arexbio.com](mailto:info@arexbio.com) or your local distributor.

\*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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**| STORAGE**

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

**| NOTE**

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.