DATASHEET

CD100 Rabbit Monoclonal Antibody(C3191)

CAT. NO. AMA02803

KEY FEATURES

Target	CD100	Source / Host	Rabbit
Reactivity	Human	Clonality	Monoclonal
Applications	WB, IF/ICC	Conjugation	Unconjugated
Form / Buffer	Liquid in 50mM Tris-Glycine (pH 7.4), 0.15M NaCl, 50% Glycerol, 0.01% Sodium azide and 0.05% BSA.	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.

WB	1:500 - 1:1000
IF/ICC	1:50 - 1:100

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

Description	Rabbit monoclonal antibody to CD100
Specificity	Recognizes endogenous levels of CD100 protein.
Antibody Type	Primary antibody
Immunogen	A synthetic peptide of human Semaphorin 4D
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 96 kD; Observed: 120 kD
Form/Buffer	Liquid in 50mM Tris-Glycine (pH 7.4), 0.15M NaCl, 50% Glycerol, 0.01% Sodium azide and 0.05% BSA.
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 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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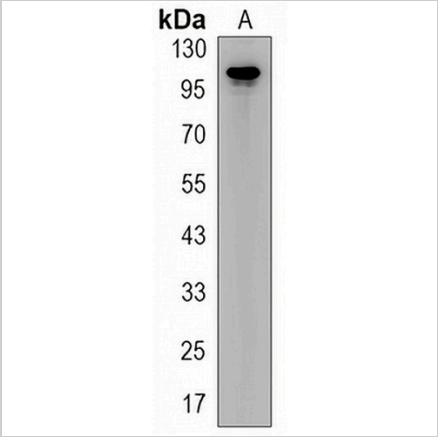
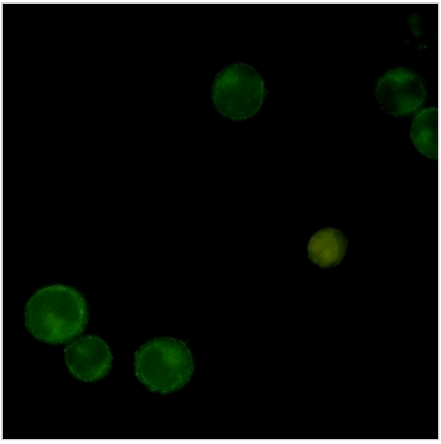
DATA



Western blot analysis of CD100 expression in Jurkat (A) whole cell lysates. (Predicted band size: 96 kD; Observed band size: 120 kD)



Immunofluorescent analysis of CD100 staining in Jurkat cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AREX® Fluor 488 -conjugated secondary antibody (green) in PBS at room temperature in the dark.

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.