

Anti-CD100 Antibody

Catalog # AP95554

Product Information

Application	FC, IF/IC
Primary Accession	Q92854
Reactivity	Human
Host	Mouse
Clonality	Monoclonal (clone: A8)
Calculated MW	96150

Additional Information

Gene ID	10507
Other Names	C9orf164; CD100; SEMAJ; Semaphorin-4D; A8; BB18; GR3; CD100
Target/Specificity	Human PHA activated lymphocytes
Dilution	FC~~1:10~50 IF/IC~~N/A
Format	Mouse IgG1 kappa. Liquid in PBS, pH 7.3, and 0.02% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	SEMA4D
Synonyms	C9orf164, CD100, SEMAJ
Function	Cell surface receptor for PLXNB1 and PLXNB2 that plays an important role in cell-cell signaling (PubMed: 20877282). Regulates GABAergic synapse development (By similarity). Promotes the development of inhibitory synapses in a PLXNB1-dependent manner (By similarity). Modulates the complexity and arborization of developing neurites in hippocampal neurons by activating PLXNB1 and interaction with PLXNB1 mediates activation of RHOA (PubMed: 19788569). Promotes the migration of cerebellar granule cells (PubMed: 16055703). Plays a role in the immune system; induces B-cells to aggregate and improves their viability (in vitro) (PubMed: 8876214). Induces endothelial cell migration through the activation of PTK2B/PYK2, SRC, and the phosphatidylinositol 3-kinase-AKT pathway (PubMed: 16055703).
Cellular Location	Cell membrane; Single-pass type I membrane protein
Tissue Location	Strongly expressed in skeletal muscle, peripheral blood lymphocytes, spleen, and thymus and also expressed at lower levels in testes, brain, kidney, small

intestine, prostate, heart, placenta, lung and pancreas, but not in colon and liver

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