

Semaphorin 4D / CD100 Antibody

Rabbit mAb

Catalog # AP92830

Product Information

Application	WB, IHC, IF, ICC, IHF
Primary Accession	Q92854
Reactivity	Human
Clonality	Monoclonal
Other Names	BB18; CD100; COLL4; Collapsin 4; GR3; MSEMA; Sema4d; Semacl2; SemaH; SEMAJ; Semaphorin 4D; Semaphorin H; Semaphorin J; Semcl2;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	96150

Additional Information

Dilution	WB 1:500~1:2000 IHC 1:50~1:200 ICC/IF 1:50~1:200
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human Semaphorin 4D / CD100
Description	May play a functional role in the immune system, as well as in the nervous system. Induces B-cells to aggregate and improves their viability in vitro.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

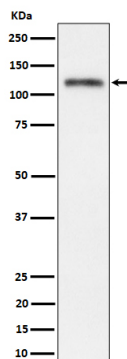
Protein Information

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

Images



Western blot analysis of Semaphorin 4D / CD100 expression in SH-SY5Y cell lysate.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.