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Anti-SEMA4D / CD100 Reference Antibody (pepinemab)

Recombinant Antibody
Catalog # APR10174

Specification

Anti-SEMA4D / CD100 Reference Antibody (pepinemab) - Product Information

Application	**FC, Kinetics, Animal Model**
Primary Accession	Q92854
Reactivity	**Human, Mouse**
Clonality	**Monoclonal**
Isotype	**IgG4SP**
Calculated MW	**145.88 KDa**

Anti-SEMA4D / CD100 Reference Antibody (pepinemab) - Additional Information

Target/Specificity
SEMA4D / CD100

Endotoxin
< 0.001EU/ μg,determined by LAL method.

Conjugation
Unconjugated

Expression system
CHO Cell

Format
Purified monoclonal antibody supplied in PBS, pH6.0, without preservative.This antibody is purified through a protein A column.

Anti-SEMA4D / CD100 Reference Antibody (pepinemab) - 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

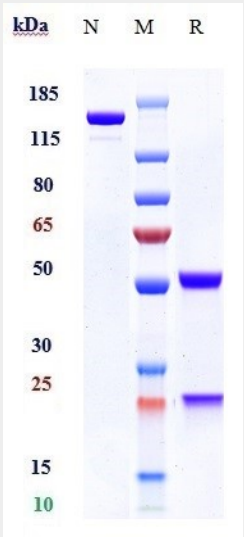
Tissue Location
Strongly expressed in skeletal muscle, peripheral blood lymphocytes, spleen, and thymus and also expressed at lower levels in testes, brain, kidney, small intestine, prostate, heart, placenta, lung and pancreas, but not in colon and liver

Anti-SEMA4D / CD100 Reference Antibody (pepinemab) - Protocols

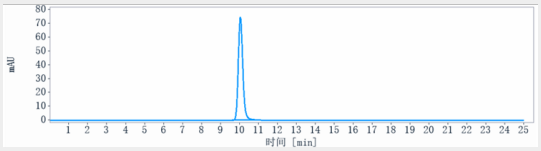
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-SEMA4D / CD100 Reference Antibody (pepinemab) - Images



Anti-SEMA4D / CD100 Reference Antibody (pepinemab) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%



The purity of Anti-SEMA4D / CD100 Reference Antibody (pepinemab)is more than 100%

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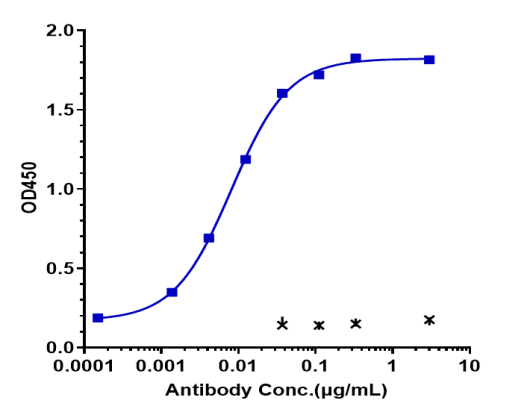
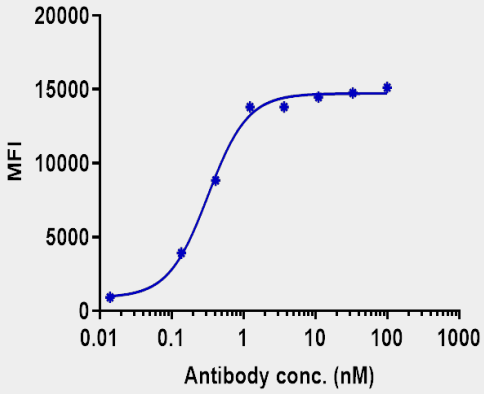
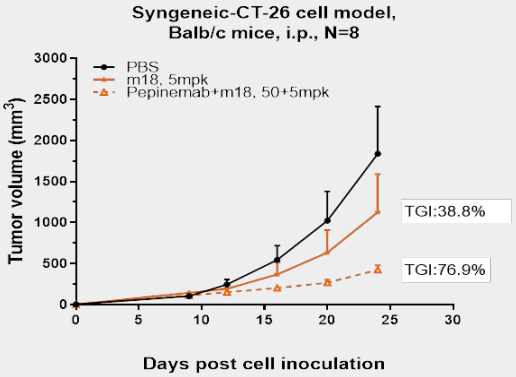
,determined by SEC-HPLC.



Immobilized human SEMA4D/CD100, His Tag at 2 μg/mL can bind Anti-SEMA4D / CD100 Reference Antibody (pepinemab)EC50=0.0081 μg/mL



Human C100 HEK293 cells were stained with Anti-SEMA4D / CD100 Reference Antibody (pepinemab) and negative control protein respectively, washed and then followed by PE and analyzed with FACS, EC231=0.3227 nM



Pepinemab inhibited the tumor growth of CT26 on balb/c mice. The result showed significant anti-tumor effects, with an tumor inhibition rate (TGI) of 76.9% at 50 mpk at D24.