Data Sheet (Cat.No.TMAH-01081)

Anti-SEMA4D Antibody (2P72)

Product Details

Ig Type:	Human IgG4(S228P)
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	2P72
Purification:	Affinity-chromatography

Applications

Verified Activity:	1. Untransfected HEK293T cells surface (green line) and transfected Human SEMA4D HEK293T stable cells surface (red line) were stained with anti-SEMA4D antibody (2μg/1*10^6 cells), washed and then followed by FITC-conjugated anti-Human IgG Fc antibody and analyzed with flow cytometry. 2. The Binding Activity of Mouse Sema4d with Anti-SEMA4D recombinant antibody. Activity: Measured by its binding ability in a functional ELISA. Immobilized Mouse Sema4d at 2 μg/mL can bind Anti-SEMA4D recombinant antibody, the EC50 is 98.14-174.8 ng/mL. 3. The Binding Activity of Human SEMA4D with Anti-SEMA4D recombinant antibody. Activity: Measured by its binding ability in a functional ELISA. Immobilized Human SEMA4D at 2 μg/mL can bind Anti-SEMA4D recombinant antibody, the EC50 is 1.082-4.805 ng/mL.
Application:	ELISA, FCM
Recommended	FCM:1:50-1:200.

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein: Human SEMA4D Protein
Antigen Species:	Human
Gene ID:	10507
Uniprot ID:	Q92854
Synonyms:	M-sema-G;FLJ46484;MGC169138;C9orf164;CD100;MGC169141;Semaphorin-4D;SEMAJ;FLJ33485;FLJ34282;coll-4;SEMA4D;FLJ39737
Biology Area:	Neuroscience, Immunology

Research 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.

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