

## Anti-SEMA4D Antibody (6F523)

## Product Details

Ig Type:	IgG2b
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	6F523
Purification:	Protein G purified

## Applications

Verified Activity:	<p>1. Western Blot</p> <ul style="list-style-type: none"><li>-Positive WB detected in: 293T whole cell lysate transfected with SEMA4D; Recombinant proteins with SEMA4D</li><li>-All lanes: SEMA4D antibody at 1:1000</li><li>-Secondary: Goat polyclonal to mouse IgG at 1/50000 dilution</li><li>-Predicted band size: 130, 150 KDa</li><li>-Observed band size: 130, 150 KDa</li></ul> <p>2. Overlay Peak curve showing 293T whole cell lysate transfected with SEMA4D stained with TMAH-01082 (red line) at 1:100. The cells were incubated in 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody (1µg/1*10<sup>6</sup>cells) for 1h at 4° C. The secondary antibody used was FITC-conjugated Goat Anti-Mouse IgG(H+L) at 1/100 dilution for 30min at 4°C. Isotype control antibody (green line) was mouse IgG1 (1µg/1*10<sup>6</sup>cells) used under the same conditions. Acquisition of &gt;10,000 events was performed.</p>
Application:	ELISA, WB, FCM

## Properties

Purity:	>95%
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(22-734aa)
Antigen Species:	Human
Gene ID:	10507
Uniprot ID:	Q92854
Synonyms:	coll-4;FLJ46484;M-sema-G;MGC169141;FLJ39737;SEMAJ;FLJ34282;MGC169138;FLJ33485;Semaphorin-4D;CD100;SEMA4D;C9orf164
Biology Area:	Signal Transduction

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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481