

**Product Name: Semaphorin 4D Rabbit Monoclonal antibody**  
**Catalog #: AMRe02585**

---



## Summary

<b>Production Name</b>	Semaphorin 4D Rabbit Monoclonal antibody
<b>Description</b>	Recombinant Rabbit Monoclonal antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB, ICC/IF
<b>Reactivity</b>	Human

## Performance

<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Monoclonal Antibody
<b>Form</b>	Liquid
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
<b>Buffer</b>	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
<b>Purification</b>	Affinity Purified

## Immunogen

<b>Gene Name</b>	SEMA4D
<b>Alternative Names</b>	CD100; COLL4; SEMAJ; coll-4; C9orf164; M-sema-G
<b>Gene ID</b>	10507
<b>SwissProt ID</b>	Q92854.

## Application

<b>Dilution Ratio</b>	WB: 1:500-1:1000 IF: 1:50-1:200
<b>Molecular Weight</b>	Calculated MW: 96 kDa; Observed MW: 120 kDa

**Product Name: Semaphorin 4D Rabbit Monoclonal antibody**  
**Catalog #: AMRe02585**



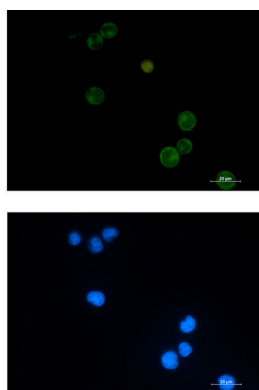
## Background

Cell surface receptor for PLXN1B and PLXNB2 that plays an important role in cell-cell signaling. Promotes reorganization of the actin cytoskeleton and plays a role in axonal growth cone guidance in the developing central nervous system. Regulates dendrite and axon branching and morphogenesis. Promotes the migration of cerebellar granule cells and of endothelial cells. Plays a role in the immune system; induces B-cells to aggregate and improves their viability (in vitro). Promotes signaling via SRC and PTK2B/PYK2, which then mediates activation of phosphatidylinositol 3-kinase and of the AKT1 signaling cascade. Interaction with PLXNB1 mediates activation of RHOA.

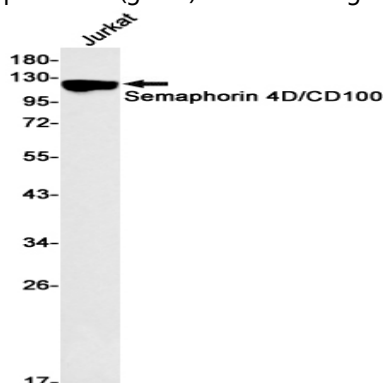
## Research Area

Immunology

## Image Data



Immunocytochemistry analysis of Semaphorin 4D (green) in Jurkat using Semaphorin 4D antibody, and DAPI (blue).



Western blot analysis of Semaphorin 4D/CD100 in Jurkat lysates using Semaphorin 4D/CD100 antibody.

## Note

For research use only.