

Product datasheet for **TA385225**

Semaphorin 4D (SEMA4D) Rabbit Monoclonal Antibody [Clone ID: R05-2E3]

Product data:

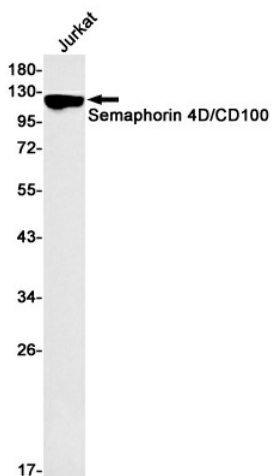
Product Type:	Primary Antibodies
Clone Name:	R05-2E3
Applications:	IF, WB
Recommended Dilution:	WB: 1/1000-1/5000 ICC/IF: 1/20-1/100
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Monoclonal
Immunogen:	A synthetic peptide of human Semaphorin 4D
Formulation:	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
Concentration:	lot specific
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Stability:	1 year
Predicted Protein Size:	Calculated MW: 96 kDa; Observed MW: 120 kDa
Gene Name:	semaphorin 4D
Database Link:	Entrez Gene 10507 Human Q92854
Background:	Swiss-Prot Acc.Q92854.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.



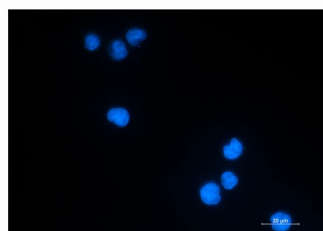
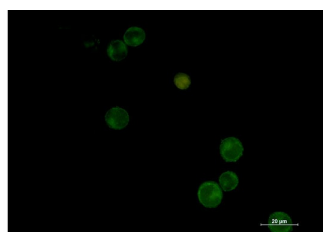
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Synonyms:

A8; BB18; C9orf164; CD100; coll-4; FLJ33485; FLJ34282; FLJ39737; FLJ46484; GR3; M-sema-G; MGC169138; MGC169141; OTTHUMP00000021622; OTTHUMP00000208950; OTTHUMP00000208951; OTTHUMP00000208957; SEMAJ

Product images:


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



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