SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-SEMA6C antibody

Catalog Number: SL11483R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	SEMA6C
Immunogen:	KLH conjugated synthetic peptide derived from human SEMA6C: 256-305/930 <Extracellular>
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 IHC-P=1:100-500 IHC-F=1:100-500 ICC/IF=1:100-500 IF=1:100-500 ELISA=1:5000-10000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	(predicted: Human, Mouse, Rat, Dog, Pig, Cow, Rabbit, Sheep)
Predicted MW.:	97kDa
Subcellular Location:	The cell membrane
Background:	Semaphorins are a family of cell surface and secreted proteins involved in neural development that are conserved from insects to humans. Members of this family are approximately 750 amino acids in length (including signal sequences) and are defined by a conserved extracellular “semaphorin” domain of approximately 500 amino acids containing 14-16 cysteines, blocks of conserved sequences and no obvious repeats. The transmembrane semaphorins are characterized by an additional 80 amino acid transmembrane domain and an 80-110 amino acid cytoplasmic domain. SEMA6C, also known as SEMA Y, is a transmembrane protein expressed in

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	fetal brain and adult skeletal muscle. Three isoforms of this semaphorin exist due to alternative splicing: SEMA6C 1, SEMA6C 2 and SEMA6C 3. The extracellular domain of SEMA6C induces growth cone collapse of dorsal root ganglion and plays a role in generation or stability of entorhino-hippocampal synapses. **Function:** SEMA6C belongs to a subfamily characterized by an extracellular semaphorin domain, a transmembrane domain, and a long cytoplasmic tail. Members of this class can repel sympathetic and dorsal root ganglion axons in vitro, consistent with a traditional role as guidance signals. SEMA6C shows growth cone collapsing activity on dorsal root ganglion (DRG) neurons in vitro and may be a stop signal for the DRG neurons in their target areas, and possibly also for other neurons. SEMA6C may also be involved in the maintenance and remodeling of neuronal connections. **Subcellular Location:** Membrane; Single-pass type I membrane protein. **Tissue Specificity:** In adult tissues, expressed only in skeletal muscle. **Similarity:** Belongs to the semaphorin family. Contains 1 PSI domain. Contains 1 Sema domain. **Database links:** **Entrez Gene:** 10500 Human Omim: 609294 Human **SwissProt:** Q9H3T2 Human

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