

**SEMA6C Polyclonal Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP54519****Specification**

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**SEMA6C Polyclonal Antibody - Product Information**

Application	WB, IHC-P, IHC-F, IF, ICC, E
Primary Accession	<a href="#">Q9H3T2</a>
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	97 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human SEMA6C
Epitope Specificity	256-305/930
Isotype	IgG
<b>Purity</b>	
affinity purified by Protein A	
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Membrane; Single-pass type I membrane protein.
SIMILARITY	Belongs to the semaphorin family. Contains 1 PSI domain. Contains 1 Sema domain.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

**Background Descriptions**

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 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.

**SEMA6C Polyclonal Antibody - Additional Information****Gene ID** 10500**Other Names**

Semaphorin-6C, Semaphorin-Y, Sema Y, SEMA6C, KIAA1869, SEMAY

**Target/Specificity**

In adult tissues, expressed only in skeletal muscle.

**Dilution**

<span class = "dilution\_WB">WB~~1:1000</span><br \><span class = "dilution\_IHC-P">IHC-P~~N/A</span><br \><span class = "dilution\_IHC-F">IHC-F~~N/A</span><br \><span class = "dilution\_IF">IF~~1:50~200</span><br \><span class = "dilution\_ICC">ICC~~N/A</span><br \><span class = "dilution\_E">E~~N/A</span>

**Storage**

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

**SEMA6C Polyclonal Antibody - Protein Information**

**Name** SEMA6C

**Synonyms** KIAA1869, SEMAY

**Function**

Shows growth cone collapsing activity on dorsal root ganglion (DRG) neurons in vitro. May be a stop signal for the DRG neurons in their target areas, and possibly also for other neurons. May also be involved in the maintenance and remodeling of neuronal connections.

**Cellular Location**

Cell membrane; Single-pass type I membrane protein

**Tissue Location**

In adult tissues, expressed only in skeletal muscle.

**SEMA6C Polyclonal Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**SEMA6C Polyclonal Antibody - Images**