

# Anti-Semaphorin-6A (cytoplasmic region) Antibody

Catalog # AN1949

## Product Information

|                   |                        |
|-------------------|------------------------|
| Application       | WB, ICC, IP            |
| Primary Accession | <a href="#">Q9H2E6</a> |
| Reactivity        | Rat                    |
| Host              | Rabbit                 |
| Clonality         | Rabbit Polyclonal      |
| Isotype           | IgG                    |
| Calculated MW     | 114369                 |

## Additional Information

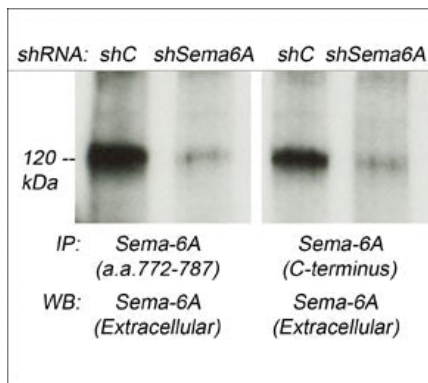
|             |                                                                                                                                          |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Gene ID     | 57556                                                                                                                                    |
| Other Names | Semaphorin-6A, Semaphorin VIA, Sema VIA, Semaphorin-6A-1, SEMA6A-1, SEMA6A, KIAA1368, SEMAQ                                              |
| Dilution    | WB~~1:1000 ICC~~N/A IP~~N/A                                                                                                              |
| Storage     | Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| Precautions | Anti-Semaphorin-6A (cytoplasmic region) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.       |
| Shipping    | Blue Ice                                                                                                                                 |

## Background

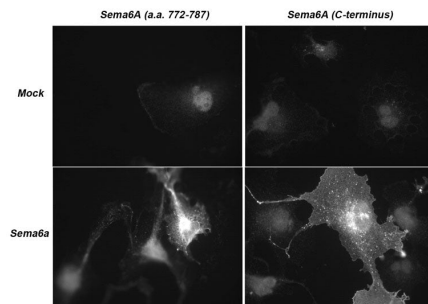
The Semaphorin family of axon guidance molecules includes secreted, transmembrane, and GPI-anchored extracellular molecules that have been implicated in neuron development, vascular disease, and tumor progression. There are eight classes of semaphorin genes, all of which are characterized by a conserved 500 amino acid, cystine-rich Sema domain. Semaphorin 6A (Sema-6A) is a single-pass type I membrane protein that contains a plexin-semaphorin-integrin (PSI) domain and a Sema domain. Sema-6A is active as a homodimer or oligomer. The Sema-6A homodimer interacts with a Plexin A2 homodimer. Sema-6a promotes reorganization of the actin cytoskeleton to regulate normal granule cell migration in the developing cerebellum and to control axon guidance in the developing central nervous system. In addition, Sema-6a has been implicated in oligodendrocyte myelination and may alter VEGF signaling during angiogenesis.

## Images

Western blot of Sema-6A in human colorectal cancer (CRC) cells treated with control (shC) or Sema-6A (shSema6A) shRNAs. Sema-6A was immunoprecipitated



from each of the CRC lysates using Sema-6A (a.a. 772-787) or Sema-6A (C-terminus) antibody, then the blotted immunoprecipitations were probed with Sema-6A antibody. (Images provided by Dr. Luca Tamagnone from the IRCC, Univ. of Torino, Italy).



Immunocytochemical labeling of Sema-6A in COS7 cells that were mock transfected (top images) or Sema-6A transfected (bottom images). The cells were labeled with anti-Sema-6A (a.a. 772-787) (Left top and bottom image) or anti-Sema-6A (C-terminus) (Right top and bottom image). The antibodies were detected using anti-rabbit fluorescent secondary antibody. (Images provided by Dr. Luca Tamagnone from the IRCC, University of Torino, Italy).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.