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Anti-Semaphorin-6A (C-terminus) Antibody

Catalog # AN1950

Product Information

Application	WB, ICC, IP
Primary Accession	Q9H2E6
Host	Rabbit
Clonality	Rabbit Polyclonal
Isotype	IgG
Calculated MW	114369

Additional Information

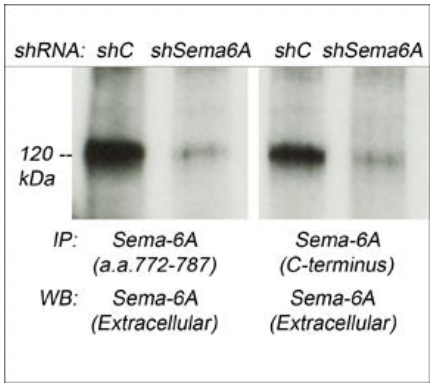
Gene ID	57556
Other Names	Semaphorin-6A, Semaphorin VIA, Sema VIA, Semaphorin-6A-1, SEMA6A-1, SEMA6A, KIAA1368, SEMAQ
Dilution	WB~~1:1000 ICC~~N/A IP~~N/A
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions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

Background

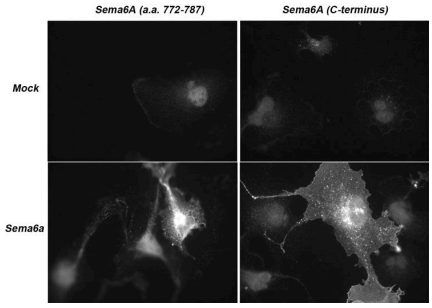
The Semaphorin family of axon guidance molecules includes secreted, transmembrane, and GPI-anchored extracellular molecules that have been implicated in neuron development, vascular disease, and tumor progression. There are eight classes of semaphorin genes, all of which are characterized by a conserved 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).



mmunocytochemical 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).