

Anti-Semaphorin-3F (C-terminal region) Antibody

Catalog # AN1947

Product Information

Application	WB
Primary Accession	Q13275
Host	Rabbit
Clonality	Rabbit Polyclonal
Isotype	IgG
Calculated MW	88381

Additional Information

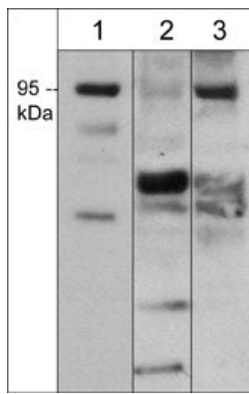
Gene ID	6405
Other Names	Semaphorin-3F, Sema III/F, Semaphorin IV, Sema IV, SEMA3F
Dilution	WB~~1:1000
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Anti-Semaphorin-3F (C-terminal region) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.
Shipping	Blue Ice

Background

One family of inhibitory axon guidance molecules is the semaphorins. The semaphorins include 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 3F (Sema-3F) is a class III secreted semaphorin that binds with high affinity to Neuropilin-2, and low affinity to Neuropilin-1. During peripheral and central nervous system development, Sema-3F has critical roles in axon guidance and dendrite outgrowth. Sema-3F has also been shown to inhibit angiogenesis by manipulating VEGFR function and decreasing blood vessel density. In cancers, Sema-3F induces a poorly vascularized, encapsulated, non-metastatic phenotype through chemorepulsion of endothelial cells in melanoma, while Sema-3F disrupts intercellular contacts of MCF7 breast cancer cells through delocalization of E-cadherin and β -catenin. Thus, Sema-3F may have important roles in axon guidance, angiogenesis, and tumor progression

Images

Western blot analysis of Sema-3F expression in adult mouse brain (lane 1), kidney (lane 2), and liver (lane 3). The blot was probed with anti-Sema-3F (AN1947) at 1:1000.



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