

Anti-Semaphorin-3E (N-terminal region) Antibody

Catalog # AN1946

Product Information

Application	WB
Primary Accession	O15041
Host	Rabbit
Clonality	Rabbit Polyclonal
Isotype	IgG
Calculated MW	89228

Additional Information

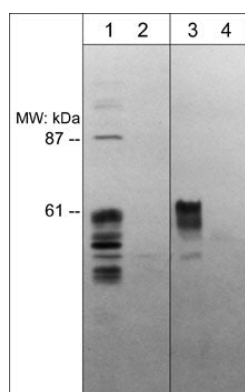
Gene ID	9723
Other Names	Semaphorin-3E, SEMA3E, KIAA0331, SEMAH
Dilution	WB~~1:1000
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Anti-Semaphorin-3E (N-terminal region) Antibody is for research 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 3E (Sema-3E) is a class III secreted semaphorin that binds Plexin D1 receptor, and has putative roles in axon guidance, angiogenesis, and cancers. Mutations in the Sema-3E gene are associated with CHARGE syndrome, a disorder that has nerve and cardiovascular abnormalities. The Sema-3E protein is expressed as full length (87 kDa) and furin-dependent processed forms (61 and 25 kDa). These forms are observed as monomers, as well as homo- and hetero-dimers. Sema-3E protein is frequently expressed in human cancer cell lines and in solid tumors from breast cancer patients. The expression of Sema-3E in mammary adenocarcinoma cells induces the ability to form experimental lung metastasis, and this activity requires furin-dependent production of the 61 kDa Sema-3E protein.

Images

Western blot analysis of rat PC12 cells (lanes 1 & 2) and human PC-3 cells (lanes 3 & 4). The blots were probed with anti-Sema-3E (N-terminal region) antibody in



absence (lanes 1 & 3) or presence of Sema-3E (N-terminal region) blocking peptide (lanes 2 & 4).

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