

SEMA3E Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP7976b

Product Information

Application	WB, IHC-P, E
Primary Accession	P70275
Reactivity	Human, Rat, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	89543
Antigen Region	737-766

Additional Information

Gene ID	20349
Other Names	Semaphorin-3E, Semaphorin-H, Sema H, Sema3e, Semah, Semh
Target/Specificity	This SEMA3E antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 737-766 amino acids from the C-terminal region of human SEMA3E.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	SEMA3E Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	Sema3e
Synonyms	Semah, Semh
Function	Plays an important role in signaling via the cell surface receptor PLXND1. Mediates reorganization of the actin cytoskeleton, leading to the retraction of cell projections. Promotes focal adhesion disassembly and inhibits adhesion of endothelial cells to the extracellular matrix. Regulates angiogenesis, both

during embryogenesis and after birth. Can down-regulate sprouting angiogenesis. Required for normal vascular patterning during embryogenesis. Plays an important role in ensuring the specificity of synapse formation.

Cellular Location

Secreted.

Tissue Location

Detected in neurons in the thalamus. Detected in embryonic vasculature. Developing lungs, developing skeletal elements and ventral horns of the developing neural tube. Correlates positively with tumor progression.

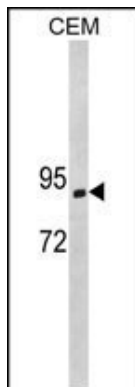
Background

The Semaphorins make up the largest family of axon guidance cues yet described. Semaphorins are divided into 8 classes (classes 3-7 found in vertebrates). Class 3 Semaphorins are secreted, classes 4 through 6 are transmembrane proteins, and class 7 are membrane associated via glycosylphosphatidylinositol (GPI) linkage. They are characterized structurally by a conserved ~400 amino acid sema domain. They are classically described as collapsing factors and mediators of axon repulsion, although they may also act as context-dependent chemoattractants. Semaphorins have been shown to have roles in cardiovascular development and in the regulation of immune cell antigen presentation. Receptors or receptor complexes that mediate semaphorin signaling include proteins of the Neuropilin and Plexin families.

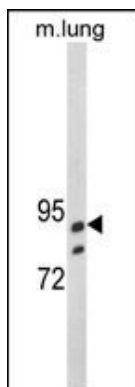
References

Christensen C.R.L.,Cancer Res. 58:1238-1244(1998).

Images

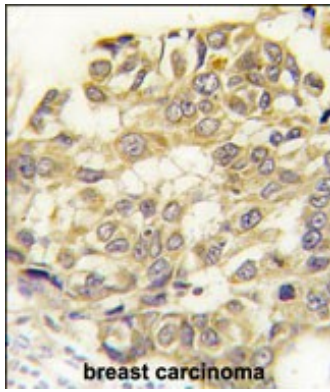


Western blot analysis of Semaphorin 3E(Sema3e) (C-term) (Cat. #AP7976b) in CEM cell line lysates (35ug/lane).Sema3e (arrow) was detected using the purified Pab.



Western blot analysis of Semaphorin 3E(Sema3e) (C-term) (Cat. #AP7976b) in mouse lung tissue lysates (35ug/lane). Sema3e (arrow) was detected using the purified Pab.

Formalin-fixed and paraffin-embedded human breast carcinoma tissue reacted with Semaphorin 3E(Sema3e) (C-term) (Cat.#AP7976b), which was peroxidase-conjugated to the secondary antibody,



followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Citations

- [Cross-species Transcriptome Profiling Identifies New Alveolar Epithelial Type I Cell-specific Genes.](#)

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