

Anti-Semaphorin 3A Picoband Antibody

Catalog # ABO12044

Product Information

Application	WB
Primary Accession	Q14563
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Semaphorin-3A(SEMA3A) detection. Tested with WB in Human.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	10371
Other Names	Semaphorin-3A, Semaphorin III, Sema III, SEMA3A, SEMAD
Calculated MW	88889
Application Details	Western blot, 0.1-0.5 µg/ml, Human
Subcellular Localization	Secreted .
Source	Eukaryota
Protein Name	Semaphorin-3A
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Immunogen	E.coli-derived human Semaphorin 3A recombinant protein (Position: K550-V771). Human Semaphorin 3A shares 93% and 94% amino acid (aa) sequence identity with mouse and rat Semaphorin 3A, respectively.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins.
Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
Sequence Similarities	Belongs to the semaphorin family.

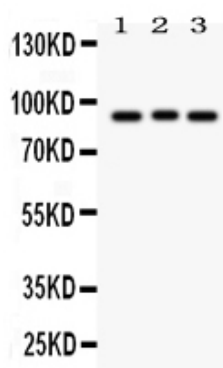
Protein Information

Name	SEMA3A
Synonyms	SEMAD
Function	Involved in the development of the olfactory system and in neuronal control of puberty. Induces the collapse and paralysis of neuronal growth cones. Could serve as a ligand that guides specific growth cones by a motility-inhibiting mechanism. Binds to the complex neuropilin-1/plexin-1.
Cellular Location	Secreted.
Tissue Location	Expressed in the dorsal root ganglia.

Background

SEMA3A is also known as COLL1, SEMA1 or SEMAL. This gene is a member of the semaphorin family and encodes a protein with an Ig-like C2-type (immunoglobulin-like) domain, a PSI domain and a Sema domain. This secreted protein can function as either a chemorepulsive agent, inhibiting axonal outgrowth, or as a chemoattractive agent, stimulating the growth of apical dendrites. In both cases, the protein is vital for normal neuronal pattern development. Increased expression of this protein is associated with schizophrenia and is seen in a variety of human tumor cell lines. Also, aberrant release of this protein is associated with the progression of Alzheimer's disease.

Images



Anti- Semaphorin 3A Picoband antibody, ABO12044,
Western blottingAll lanes: Anti Semaphorin 3A
(ABO12044) at 0.5ug/mlLane 1: 293T Whole Cell Lysate at
40ugLane 2: A549 Whole Cell Lysate at 40ugLane 3: HELA
Whole Cell Lysate at 40ugPredicted bind size:
89KDObserved bind size: 89KD

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