



Rabbit Anti-Unc5a antibody

SL11495R

Product Name:	Unc5a
Chinese Name:	神经突起生长诱导因子受体Unc5a抗体
Alias:	UNC5H1; Netrin receptor UNC 5A; Netrin receptor UNC5A; Netrin receptor Unc5h1; Protein unc-5 homolog 1; Protein unc-5 homolog A; Unc 5 homolog 1; Unc 5 homolog A; Unc 5a; Unc5 a; Unc5 homolog 1; Unc5 homolog A; Unc5a; UNC5A_HUMAN; Unc5h1; FLJ16449; KIAA1976.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Sheep,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	90kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Unc5a:125-220/842<Extracellular>
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	The UNC5H family of proteins act as transmembrane receptors for netrin-1 and play a crucial role in axon guidance and migration of neural cells. Additionally, when cleaved by a caspase to produce an intracellular fragment containing a death domain,UNC5H

receptors induce apoptosis. This activity is blocked by the binding of netrin-1. In the absence of netrin-1, UNC5H receptors act as tumor suppressors by inhibiting anchorage-independent growth and invasion, but mutation of these receptors provides a potential mechanism for tumorigenicity. The expression of UNC5H receptors is downregulated in multiple carcinomas, including colorectal, breast, ovary, uterus, stomach, lung and kidney cancers. UNC5H1, also known as UNC5HA (unc-5 homolog A), is a member of the UNC5H family of proteins and is localized to the cell membrane. Three isoforms of UNC5H1 exist due to alternative splicing events.

Function:

Receptor for netrin required for axon guidance. Mediates axon repulsion of neuronal growth cones in the developing nervous system upon ligand binding. Axon repulsion in growth cones may be caused by its association with DCC that may trigger signaling for repulsion. It also acts as a dependence receptor required for apoptosis induction when not associated with netrin ligand.

Subunit:

Interacts with the cytoplasmic part of DCC. Interacts with MAGED1. Interacts with PRKCABP, possibly mediating some interaction with PKC

Subcellular Location:

Cell membrane. The interaction with PRKCABP regulates its surface expression and leads to its removal from surface of neurons and growth cones.

Post-translational modifications:

Phosphorylated on cytoplasmic tyrosine residues. Phosphorylated by PKC in vitro. Proteolytically cleaved by caspases during apoptosis. The cleavage does not take place when the receptor is associated with netrin ligand. Its cleavage by caspases is required to induce apoptosis.

Similarity:

Belongs to the unc-5 family.

Contains 1 death domain.

Contains 1 Ig-like (immunoglobulin-like) domain.

Contains 1 Ig-like C2-type (immunoglobulin-like) domain.

Contains 1 TSP type-1 domain.

Contains 1 ZU5 domain.

SWISS:

Q6ZN44

Gene ID:

90249

Database links:

[Entrez Gene: 90249](#) Human

[Entrez Gene: 107448](#) Mouse

[Entrez Gene: 60629](#) Rat

[Olim: 607869](#) Human

[SwissProt: Q6ZN44](#) Human

[SwissProt: Q8K1S4](#) Mouse

[SwissProt: O08721](#) Rat

[Unigene: 33191](#) Human

[Unigene: 23573](#) Mouse

[Unigene: 44433](#) Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.