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[Primary Antibody]

Rabbit Anti-Unc5a antibody

Catalog Number: SL11495R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Unc5a
Immunogen:	KLH conjugated synthetic peptide derived from human Unc5a: 125-220/842 <Extracellular>
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 ICC/IF=1:100-500 IF=1:100-500 ELISA=1:5000-10000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	(predicted: Human, Mouse, Rat, Dog, Pig, Cow, Horse, Sheep)
Predicted MW.:	90kDa
Subcellular Location:	The cell membrane
Background:	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

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	(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. **Database links:** **Entrez Gene:** 90249 Human **Entrez Gene:** 107448 Mouse **Entrez Gene:** 60629 Rat Omim: 607869 Human **SwissProt:** Q6ZN44 Human **SwissProt:** Q8K1S4 Mouse **SwissProt:** O08721 Rat **Unigene:** 33191 Human **Unigene:** 23573 Mouse **Unigene:** 44433 Rat

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