SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-UNC5B antibody

Catalog Number: SL11492R

FOR RESEARCH USE ONLY

[DATASHEET]

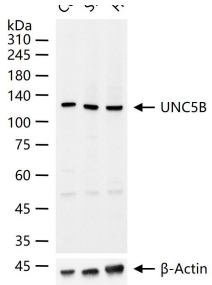
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	UNC5B
Immunogen:	KLH conjugated synthetic peptide derived from human UNC5B: 188-260/945 <Extracellular>
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB (1:500-2000) Not yet tested in other applications. Optimal working dilutions must be determined by the end user.
Reactivity:	Human, Rat (predicted: Mouse, Rabbit, Pig, Dog, Horse)
Predicted MW.:	101kDa
Subcellular Location:	The cell membrane
Background:	This gene encodes a member of the netrin family of receptors. This particular protein mediates the repulsive effect of netrin-1 and is a vascular netrin receptor. This encoded protein is also in a group of proteins called dependence receptors (DpRs) which are involved in pro- and anti-apoptotic processes. Many DpRs are involved in embryogenesis and in cancer progression. Two alternatively spliced transcript variants have been described for this gene. [provided by RefSeq, Oct 2011] **Function:** FunctionReceptor 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. Mediates apoptosis by activating DAPK1. In the absence of NTN1, activates DAPK1 by reducing its autoinhibitory phosphorylation at

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	Ser-308 thereby increasing its catalytic activity. **Subunit:** Interacts with the cytoplasmic part of DCC (By similarity). Interacts with GNAI2 via its cytoplasmic part. Interacts (via death domain) with DAPK1 (via death domain). **Subcellular Location:** Membrane; Single-pass type I membrane protein. Note=Associated with lipid raft. **Tissue Specificity:** Highly expressed in brain. Also expressed at lower level in developing lung, cartilage, kidney and hematopoietic and immune tissues. **Post-translational modifications:** Phosphorylated on cytoplasmic tyrosine residues (By similarity). 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. Palmitoylation target the protein to the lipid rafts, and is required for pro-apoptotic activity. **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 2 TSP type-1 domains. Contains 1 ZU5 domain. **Database links:** **Entrez Gene:** 219699 Human **Entrez Gene:** 107449 Mouse Omim: 607870 Human **SwissProt:** Q8IZJ1 Human **SwissProt:** Q8K1S3 Mouse **Unigene:** 522997 Human **Unigene:** 290433 Mouse

[VALIDATION IMAGES]



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Figure 1. 25 ug total protein per lane of various lysates (see on figure) probed with UNC5B polyclonal antibody, unconjugated (SL11492R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min

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