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**[ Primary Antibody ]**

# Rabbit Anti-UNC5C antibody

**Catalog Number: SL11493R**

**FOR RESEARCH USE ONLY**

**[ DATASHEET ]**

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| **Host:** | Rabbit |
| **Isotype:** | IgG |
| **Clonality:** | Polyclonal |
| **Target:** | UNC5C |
| **Immunogen:** | KLH conjugated synthetic peptide derived from human UNC5C: 201-288/931 <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<br>IHC-F=1:100-500<br>ICC/IF=1:100-500<br>IF=1:100-500<br>ELISA=1:5000-10000 （Paraffin sections need antigen repair）<br>not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user. |
| **Reactivity:** | (predicted: Human, Mouse, Rat, Chicken, Dog, Pig, Cow, Horse, Rabbit, Sheep) |
| **Predicted MW.:** | 99kDa |
| **Subcellular Location:** | The cell membrane |
| **Background:** | This gene product belongs to the UNC-5 family of netrin receptors. Netrins are secreted proteins that direct axon extension and cell migration during neural development. They are bifunctional proteins that act as attractants for some cell types and as repellents for others, and these opposite actions are thought to be mediated by two classes of receptors. The UNC-5 family of receptors mediate the repellent response to netrin; they are transmembrane proteins containing 2 immunoglobulin (Ig)-like domains and 2 type I thrombospondin motifs in the extracellular region. [provided by RefSeq, Jul 2008]<br>**Function:** UNC5C is a receptor for netrin required for axon guidance. It |

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| | 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 is also involved in corticospinal tract axon guidances independently of DCC. It also acts as a dependence receptor required for apoptosis induction when not associated with netrin ligand. There are two named isoforms.<br>**Subunit:** Interacts with the cytoplasmic part of DCC<br>**Subcellular Location:** Membrane; Single-pass type I membrane protein<br>**Tissue Specificity:** Mainly expressed in brain. Also expressed in kidney. Not expressed in developing or adult lung.<br>**Post-translational modifications:** Phosphorylated on different cytoplasmic tyrosine residues. Phosphorylation of Tyr-568 leads to an interaction with PTPN11 phosphatase, suggesting that its activity is regulated by phosphorylation/dephosphorylation. Tyrosine phosphorylation is netrin-dependent (By similarity).<br>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<br>**Similarity:** Belongs to the unc-5 family.<br>Contains 1 death domain.<br>Contains 1 Ig-like (immunoglobulin-like) domain.<br>Contains 1 Ig-like C2-type (immunoglobulin-like) domain.<br>Contains 2 TSP type-1 domains.<br>Contains 1 ZU5 domain.<br>**Database links:**<br>**Entrez Gene:** 8633 Human<br>**Entrez Gene:** 22253 Mouse<br>**Entrez Gene:** 362049 Rat<br>Omim: 603610 Human<br>**SwissProt:** O95185 Human<br>**SwissProt:** O08747 Mouse<br>**SwissProt:** Q761X5 Rat<br>**Unigene:** 388565 Human<br>**Unigene:** 24430 Mouse<br>**Unigene:** 47255 Rat |

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