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[Primary Antibody]

Rabbit Anti-UNC5D antibody

Catalog Number: SL11494R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	UNC5D
Immunogen:	KLH conjugated synthetic peptide derived from human UNC5H4: 112-200/953 <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 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, Chicken, Dog, Pig, Cow, Horse, Rabbit)
Predicted MW.:	102kDa
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 down-regulated in multiple carcinomas, including

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	colorectal, breast, ovary, uterus, stomach, lung, and kidney cancers. UNC5H4, also known as UNC5D (unc-5 homolog D), is single-pass type I membrane protein that is a member of the UNC5H netrin receptor family. Two isoforms of UNC5H4 exist due to alternative splicing events. **Function:** UNC5D belongs to a family of netrin 1 receptors thought to mediate the chemorepulsive effect of netrin 1 on specific axons. On ligand binding UNC5D may mediate axon repulsion of neuronal growth cones in the developing nervous system. **Subunit:** Interacts with the cytoplasmic part of DCC **Subcellular Location:** Membrane; Single-pass type I membrane protein. **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 **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:** 137970 Human **SwissProt:** Q6UXZ4 Human **Unigene:** 238889 Human

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