

Unc5a Rabbit pAb

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Catalog # AP54522

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q6ZN44
Predicted	Rat, Pig, Dog, Human, Mouse, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	92932
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Unc5a
Epitope Specificity	125-220/842
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cell membrane. The interaction with PRKCABP regulates its surface expression and leads to its removal from surface of neurons and growth cones.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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.

Additional Information

Gene ID	90249
Other Names	Netrin receptor UNC5A, Protein unc-5 homolog 1, Protein unc-5 homolog A, UNC5A, KIAA1976, UNC5H1
Dilution	IHC-P=1:100-500, IHC-F=1:100-500, ICC/IF=1:100-500, IF=1:100-500, ELISA=1:500 0-10000

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.
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Protein Information

Name	UNC5A
Synonyms	KIAA1976, UNC5H1
Function	Receptor for netrin required for axon guidance. Functions in the netrin signaling pathway and promotes neurite outgrowth in response to NTN1. It also acts as a dependence receptor required for apoptosis induction when not associated with netrin ligand.
Cellular Location	Cell membrane {ECO:0000250 UniProtKB:O08721}; Single-pass type I membrane protein {ECO:0000250 UniProtKB:O08721} Membrane raft {ECO:0000250 UniProtKB:O08721}. Cell projection, neuron projection {ECO:0000250 UniProtKB:O08721}. Note=The interaction with PRKCABP regulates its surface expression and leads to its removal from the surface of neurons and growth cones {ECO:0000250 UniProtKB:O08721}

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