

Netrin G2 Rabbit pAb

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Catalog # AP54374

Product Information

Application	WB
Primary Accession	Q96CW9
Reactivity	Rat, Mouse
Predicted	Dog, Human, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	59799
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Netrin G2
Epitope Specificity	151-250/530
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.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Netrin proteins are a family of laminin-related secreted proteins that provide guidance signals for axonal growth and cell migration during development. Netrin-1, which is the mammalian homolog of UNC-6 from <i>C. elegans</i>, is largely expressed in the developing nervous system and in mesodermal tissues. Netrin-1 is expressed by the floor plate as either a cell associated protein or in a diffusible form, and it binds to several surface receptor components, including deleted in colorectal cancer (DCC) and neogenin. During embryonic development, netrin-1 diffuses through the neuronal epithelium, where it forms a chemoattractant gradient that directs axonal migration to the ventral midline of the spinal cord. Netrin-2 and the corresponding mouse homolog netrin-3 are expressed primarily in the lower two-thirds of the spinal cord, and, like netrin-1, they can either attract or repel commissural axons at a distance. Netrin signaling is dependent on the concentration of calcium outside the cell and the level of PKA activity. In axonal cells, a reduction in PKA activity converts the responsiveness of the axons to the netrin proteins, as the cells are repelled, rather than attracted, by the netrin gradient.

Additional Information

Gene ID	84628
Other Names	Netrin-G2, Laminet-2, NTNG2 (HGNC:14288), KIAA1857, LMNT2
Dilution	WB=1:500-2000

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.

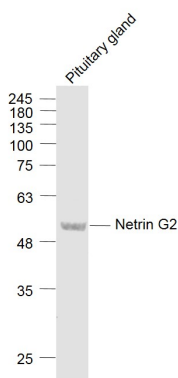
Protein Information

Name	NTNG2 (HGNC:14288)
Synonyms	KIAA1857, LMNT2
Function	Involved in controlling patterning and neuronal circuit formation at the laminar, cellular, subcellular and synaptic levels. Promotes neurite outgrowth of both axons and dendrites.
Cellular Location	Cell membrane; Lipid-anchor, GPI-anchor; Extracellular side

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Images



Sample:
Pituitary gland (Mouse) Lysate at 40 ug
Primary: Anti- Netrin G2 (AP54374) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 56 kD
Observed band size: 56 kD

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.