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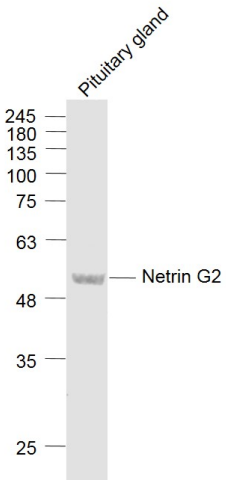
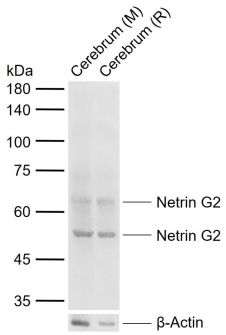
Netrin G2 Rabbit pAb

Catalog Number:	bs-11103R
Target Protein:	Netrin G2
Concentration:	1mg/ml
Form:	Liquid
Host:	Rabbit
Clonality:	Polyclonal
Isotype:	IgG
Applications:	WB (1:500-2000)
Reactivity:	Mouse, Rat (predicted:Human, Sheep, Cow, Dog)
Predicted MW:	56 kDa
Entrez Gene:	84628
Swiss Prot:	Q96CW9
Source:	KLH conjugated synthetic peptide derived from human Netrin G2: 151-250/530.
Purification:	affinity purified by Protein A
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Background:	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 C. elegans, 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.

VALIDATION IMAGES



Sample: Pituitary gland (Mouse) Lysate at 40 ug Primary: Anti- Netrin G2 (bs-11103R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 56 kD Observed band size: 56 kD



Sample: Lane 1: Mouse Cerebrum tissue lysates Lane 2: Rat Cerebrum tissue lysates Primary: Anti-Netrin G2 (bs-11103R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 56 kDa Observed band size: 62,50 kDa

PRODUCT SPECIFIC PUBLICATIONS

[IF=6.6] Yaoting Chen. et al. Compound heterozygous mutations of NTNG2 cause intellectual disability via inhibition of the CaMKII signaling. J GENET GENOMICS. 2024 Aug;: IF ; Mouse . 39151821