

For Research Use Only

Noggin Recombinant antibody

Catalog Number: 84283-5-RR



Basic Information

Catalog Number: 84283-5-RR	GenBank Accession Number: BC034027	Purification Method: Protein A purification
Size: 1000 µg/ml	GeneID (NCBI): 9241	CloneNo.: 241511D10
Source: Rabbit	UNIPROT ID: Q13253	Recommended Dilutions: WB 1:5000-1:50000
Isotype: IgG	Full Name: noggin	
Immunogen Catalog Number: AG32755	Calculated MW: 26 kDa	
	Observed MW: 26 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : PC-3 cells, mouse brain tissue, rat brain tissue
Species Specificity: human, mouse, rat	

Background Information

Noggin is an extracellular polypeptide acting as an antagonist of bone morphogenetic proteins (BMPs) regulating embryonal development. Noggin inhibits activity of BMP-2, -4, -7, -13, and -14. Noggin is present extracellularly in the matrix or retained at the cell surface via interaction with heparin sulfate proteoglycans. In early development stages, Noggin is produced by the Spemann organizer, allowing dorsal-ventral patterning of BMPs (PMID: 8752214). Subsequently, Noggin is expressed by the notochord regulating BMP-4 signaling in neurogenesis. Additionally, Noggin is present during development in the dermal papilla, connective tissue of the hair follicle, lens, retina, and periorbicular mesenchyme, as well as in the mesoderm lineage regulating development of the bone, cartilage, and muscles.

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

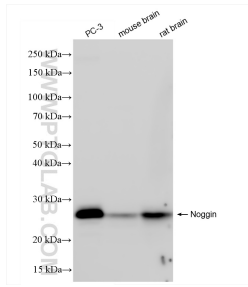
T: 4006900926

E: Proteintech-CN@ptglab.com

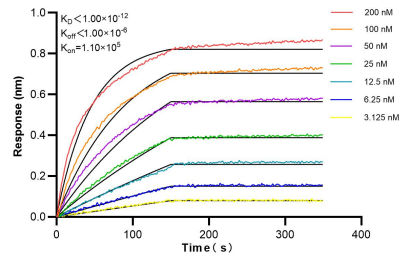
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 84283-5-RR (NOG antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 84283-5-RR against Human Noggin were performed. The affinity constant is below 1 pM.