

For Research Use Only

Noggin Recombinant monoclonal antibody, PBS Only

Catalog Number: 84283-5-PBS



Basic Information

Catalog Number:	84283-5-PBS	GenBank Accession Number:	BC034027	Purification Method:	Protein A purification
Source:	Rabbit	GeneID (NCBI):	9241	CloneNo.:	241511D10
Isotype:	IgG	UNIPROT ID:	Q13253		
Immunogen Catalog Number:	AG32755	Full Name:	noggin		
		Calculated MW:	26 kDa		
		Observed MW:	26 kDa		

Applications

Tested Applications:
WB, IHC, Indirect ELISA

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 perocular mesenchyme, as well as in the mesoderm lineage regulating development of the bone, cartilage, and muscles.

Storage

Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS only, pH7.3

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

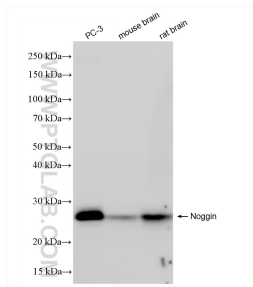
T: 4006900926

E: Proteintech-CN@ptglab.com

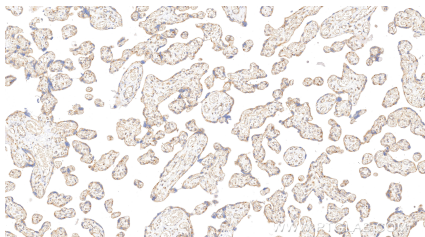
W: ptgcn.com

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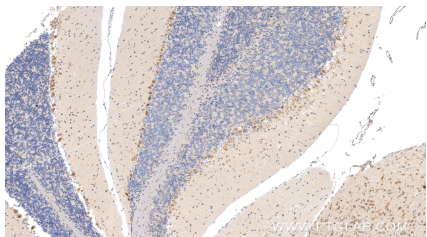
Selected Validation Data



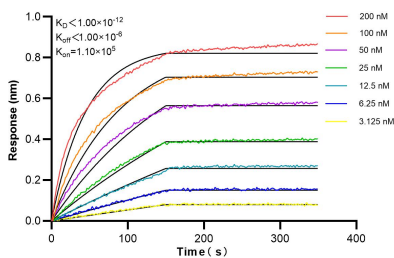
Various lysates were subjected to SDS PAGE followed by western blot with 84283-5-RR (NOG antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84283-5-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 84283-5-RR (Noggin antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 84283-5-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue slide using 84283-5-RR (Noggin antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 84283-5-PBS in a different storage buffer formulation.



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