

For Research Use Only

# Noggin Recombinant antibody, PBS Only

Catalog Number: 84283-5-PBS



## Basic Information

<b>Catalog Number:</b> 84283-5-PBS	<b>GenBank Accession Number:</b> BC034027	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug, Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 9241	<b>CloneNo.:</b> 241511D10
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q13253	
<b>Isotype:</b> IgG	<b>Full Name:</b> noggin	
<b>Immunogen Catalog Number:</b> AG32755	<b>Calculated MW:</b> 26 kDa	
	<b>Observed MW:</b> 26 kDa	

## Applications

**Tested Applications:**  
WB, 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 periorbital mesenchyme, as well as in the mesoderm lineage regulating development of the bone, cartilage, and muscles.

## Storage

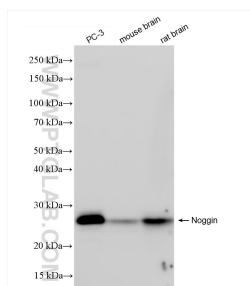
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS Only

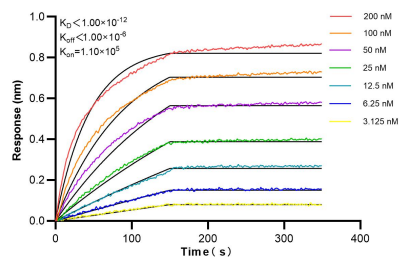
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## Selected Validation Data



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.



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