

# Noggin Polyclonal antibody

Catalog Number: 14772-1-AP

3 Publications

## Basic Information

## Catalog Number:

14772-1-AP

## Size:

500 µg/ml

## Source:

Rabbit

## Isotype:

IgG

## Immunogen Catalog Number:

AG6586

## GenBank Accession Number:

BC034027

## GeneID (NCBI):

9241

## UNIPROT ID:

Q13253

## Full Name:

noggin

## Calculated MW:

26 kDa

## Observed MW:

26 kDa

## Purification Method:

Antigen affinity purification

## Recommended Dilutions:

WB 1:500-1:3000

IHC 1:20-1:200

## Applications

## Tested Applications:

IHC, WB, ELISA

## Cited Applications:

WB, IHC

## Species Specificity:

human, mouse, rat

## Cited Species:

mouse, hamster

## Positive Controls:

WB: HeLa cells,

IHC: human gliomas tissue,

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## 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.

## Notable Publications

Author	Pubmed ID	Journal	Application
Chuanhui Yin	32949110	Birth Defects Res	IHC
Shu-Fen Li	29415997	Cell Death Dis	WB
Runxiang Xie	38172943	Microbiome	

## 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

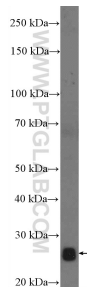
For technical support and original validation data for this product please contact:

T: 4006900926

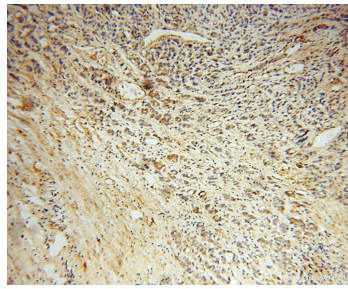
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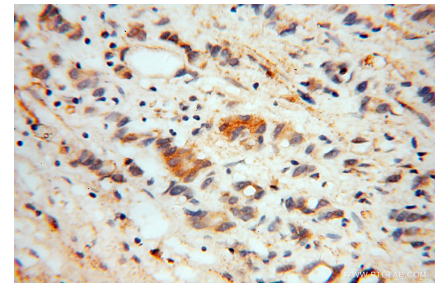
## Selected Validation Data



HeLa cells were subjected to SDS PAGE followed by western blot with 14772-1-AP (Noggin antibody at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human gliomas using 14772-1-AP (Noggin antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human gliomas using 14772-1-AP (Noggin antibody) at dilution of 1:50 (under 40x lens).