

Noggin Polyclonal antibody

Catalog Number: 14772-1-AP

3 Publications

Basic Information

Catalog Number:

14772-1-AP

Size:

150ul, Concentration: 500 µg/ml by Nanodrop and 307 µg/ml by Bradford method using BSA as the standard;

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:

WB, IHC, ELISA

Cited Applications:

WB, IHC

Species Specificity:

human, mouse, rat

Cited Species:

mouse, hamster

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

Positive Controls:

WB : HeLa cells,

IHC : human gliomas tissue,

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 pericardial 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

*** 20ul sizes contain 0.1% BSA

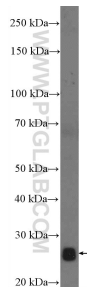
For technical support and original validation data for this product please contact:

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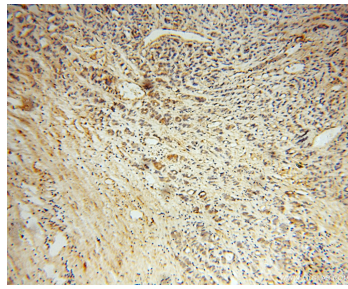
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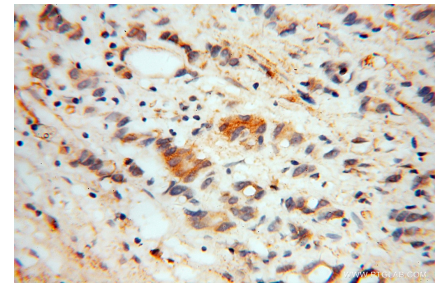
Selected Validation Data



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).