

For Research Use Only

Noggin Polyclonal antibody

Catalog Number: 30023-1-AP



Basic Information

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| Catalog Number: 30023-1-AP | GenBank Accession Number: BC034027 | Purification Method: Antigen affinity purification |
| Size: 600 µg/ml | GeneID (NCBI): 9241 | Recommended Dilutions: WB 1:500-1:1000 |
| Source: Rabbit | UNIPROT ID: Q13253 | |
| Isotype: IgG | Full Name: noggin | |
| Immunogen Catalog Number: AG32755 | Calculated MW: 26 kDa | |
| | Observed MW: 32 kDa, 64 kDa | |

Applications

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| Tested Applications: WB, ELISA | Positive Controls: WB : 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 perocular 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:

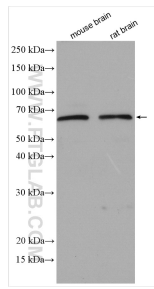
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 30023-1-AP (NOG antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.