

For Research Use Only

NeutraKine® Noggin Monoclonal antibody, PBS Only

Catalog Number: 69010-1-PBS



Basic Information

Catalog Number:

69010-1-PBS

Size:

100ug, Concentration: 1 mg/ml by Nanodrop;

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

HZ-1118

GenBank Accession Number:

GeneID (NCBI):

9241

UNIPROT ID:

Q13253

Full Name:

noggin

Purification Method:

Protein G purification

CloneNo.:

2A11C1

Applications

Tested Applications:

Neutralization, ELISA, Indirect ELISA

Species Specificity:

human

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.

This antibody can be used to neutralize the bioactivity of Noggin.

Storage

Storage:

Store at -80°C.

Storage Buffer:

PBS only, pH7.3

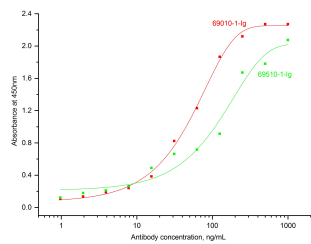
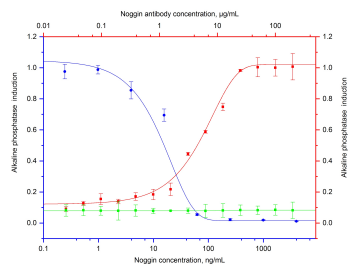
For technical support and original validation data for this product please contact:

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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Recombinant human Noggin (Cat.NO. HZ-1118) inhibits BMP-4 induced alkaline phosphate production (using pNPP as chromogenic substrate for detection) by ATDC 5 in a dose dependent manner (blue curve, refer to bottom X-left Y). The activity of human Noggin (40 ng/mL HZ-1118) is neutralized by mouse anti-human Noggin monoclonal antibody 69010-1-Ig at serial dose (red curve, refer to top X-right Y). The ND50 is typically 5-20 µg/mL. The



Indirect ELISA was carried out by coating recombinant Human Noggin (Cat.NO. HZ-1118) at 70 ng/well followed by blocking and adding serial diluted Noggin antibody 69010-1-Ig and 69510-1-Ig respectively. Signal was developed with TMB and stopped by H2SO4. Signal strength was measured by absorbance at 450 nm. This data was developed using the same antibody clone with 69010-1-PBS in a different storage buffer formulation.