For Research Use Only

NeutraControl Noggin Monoclonal antibody



Purification Method:

CloneNo.:

3B10F3

Protein A purification

Catalog Number: 69510-1-Ig

Basic Information

Catalog Number:

69510-1-lg

GenBank Accession Number:

GeneID (NCBI):

9241

100ug , Concentration: 1000 µg/ml by Full Name:

Nanodrop: noggin

Mouse Isotype:

Immunogen Catalog Number:

HZ-1118

IgG2a

Applications

Tested Applications:

ELISA, Non-Neutralization

Species Specificity:

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 periocular mesenchyme, as well as in the mesoderm lineage regulating development of the bone, cartilage, and muscles.

This antibody is a neutralizing control antibody for Noggin, the immunogen is the same as Neutrakine 69010-1-lg but could not neutralize human Noggin.

Storage

Storage:

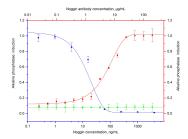
Lyophilized antibodies are stable for 1 year from the date of receipt if stored between (-20°C) and (-80°C). Upon reconstitution we recommend that the solution can be stored at(4°C) for short term or at(-20°C) to (-80°C) for long term. Repeated freeze thaw cycles should be avoided with reconstituted products.

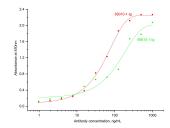
Storage Buffer: Sterile PBS.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

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 ATDC5 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-lg at serial dose (red curve, refer to top X-right Y). The ND50 is typically 5-20 µg/mL The

