

Nur für Forschungszwecke

NeutraKine® Noggin Monoklonaler Antikörper



Katalog-Nr.:69010-1-Ig

Allgemeine Informationen

Katalog-Nr.: 69010-1-Ig	GenBank-Zugangsnummer: GeneID (NCBI): 9241	Reinigungsmethode: Protein-G-Reinigung
Größe: 100ug	Vollständiger Name: noggin	CloneNo.: 2A11C1
Wirt: Maus		
Isotyp: IgG1		
Immunogen Katalognummer: HZ-1118		

Anwendungen

Geprüfte Anwendungen:
FC, Neutralization, ELISA

Getestete Reaktivität:
Human

Hintergrundinformationen

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.

Lagerung

Lagerungsbedingungen:
Lyophilisierte Antikörper sind bei Lagerung zwischen (-20°C) und (-80°C) 1 Jahr ab Empfangsdatum stabil. Bei Rekonstitution empfehlen wir, die Lösung kurzfristig bei (4°C) oder langfristig bei (-20°C) bis (-80°C). Rekonstituierte Produkte sollten nicht wiederholt eingefroren und wieder aufgetaut werden.

Lagerungspuffer:
Sterile PBS.

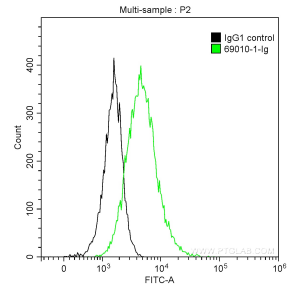
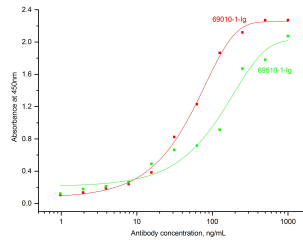
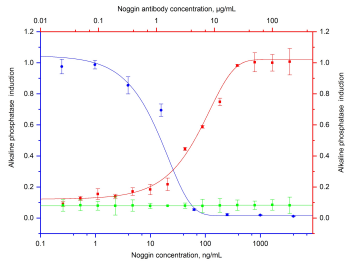
Aliquotieren ist nicht notwendig bei -20°C Lagerung

*** 20ul-Größen enthalten 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

Angewählte Validierungsdaten



Recombinant human Noggin (Cat.NO. HZ-1118) inhibits BMP-4 induced alkaline phosphatase 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 $\mu\text{g}/\text{mL}$ 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.

1×10^6 PC-3 cells were stained with 0.5 μg NeutraKine® Noggin antibody (69010-1-Ig, Clone: 2A11C1) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (green), or stained with 0.5 μg isotype control and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (black). Cells were fixed with 4% PFA and permeabilized with 0.1% Triton X-100.