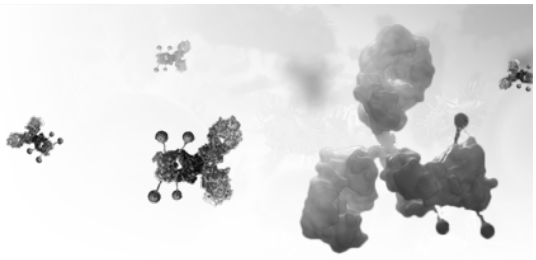

Mouse Anti-Human NOG Monoclonal Antibody, clone 3B22D2 [Functional Grade] (CABT-Z734M)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Immunogen	Human Humankine Noggin protein
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human
Clone	3B22D2
Purification	Protein G purified
Conjugate	Functional Grade
Applications	Neut, ELISA, FC
Reconstitution	Reconstitute at 1.0 mg/mL in sterile H2O before use.
Format	Lyophilized
Size	100 µg
Buffer	Sterile PBS. Endotoxin level <0.1 EU/µg.
Preservative	None
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

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	avoided with reconstituted products.
Ship	Wet ice

BACKGROUND

Introduction	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.
Keywords	NOG;noggin;SYM1, symphalangism 1 (proximal) , synostoses (multiple) syndrome 1 , SYNS1;symphalangism 1 (proximal);SYM1;SYNS1

GENE INFORMATION

Gene Name	NOG
Entrez Gene ID	9241
UniProt ID	Q13253

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