

## OriGene Technologies, Inc.

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## Product datasheet for TA347010M

## Noggin (NOG) Mouse Monoclonal Antibody [Clone ID: 1D2-G8-G1]

## **Product data:**

Product Type:	Primary Antibodies
Clone Name:	1D2-G8-G1
Applications:	IF, WB
Recommended Dilution:	WB: 1:1000, IF: 1:100
Reactivity:	Human
Host:	Mouse
lsotype:	IgG3
Clonality:	Monoclonal
Immunogen:	The immunogen for NOG antibody: purified recombinant human Noggin protein fragments expressed in E.coli.
Formulation:	ascites
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	26 kDa
Gene Name:	noggin
Database Link:	<u>NP_005441</u> <u>Entrez Gene 9241 Human</u> <u>Q13253</u>



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	Noggin (NOG) Mouse Monoclonal Antibody [Clone ID: 1D2-G8-G1] – TA347010M
Background:	The secreted polypeptide, encoded by this gene, binds and inactivates members of the transforming growth factor-beta (TGF-beta) superfamily signaling proteins, such as bone morphogenetic protein-4 (BMP4).By diffusing through extracellular matrices more efficiently than members of the TGF-beta superfamily, this protein may have a principal role in creating morphogenic gradients. The protein appears to have pleiotropic effect, both early in development as well as in later stages. It was originally isolated from Xenopus based on its ability to restore normal dorsal-ventral body axis in embryos that had been artificially ventralized by UV treatment. The results of the mouse knockout of the ortholog suggest that it is involved in numerous developmental processes, such as neural tube fusion and joint formation. Recently, several dominant human NOG mutations in unrelated families with proximal symphalangism (SYM1) and multiple synostoses syndrome (SYNS1) were identified; both SYM1 and SYNS1 have multiple joint fusion as their principal feature, and map to the same region (17q22) as this gene. All of these mutations altered evolutionarily conserved amino acid residues. The amino acid sequence of this human gene is highly homologous to that of Xenopus, rat and mouse. [provided by RefSeq.Jul 2008]
Synonyms:	SYM1; SYNS1; SYNS1A
Protein Families	: Druggable Genome, Secreted Protein
Protein Pathway	rs: TGF-beta signaling pathway

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