

#### OriGene Technologies, Inc.

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# Product datasheet for CF500029

## Noggin (NOG) Mouse Monoclonal Antibody [Clone ID: OTI1H8]

## **Product data:**

Product Type:	Primary Antibodies
Clone Name:	OTI1H8
Applications:	IF, IHC, WB
Recommended Dilution:	WB 1:20000~40000, IHC 1:50, IF 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
lsotype:	lgG2b
Clonality:	Monoclonal
Immunogen:	Human recombinant protein fragment corresponding to amino acids 28-232 of human noggin (NP_005441) produced in E.coli.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	23.7 kDa
Gene Name:	noggin
Database Link:	<u>NP_005441</u> <u>Entrez Gene 18121 MouseEntrez Gene 25495 RatEntrez Gene 9241 Human</u> <u>Q13253</u>



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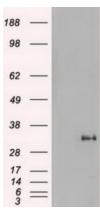
### Scheme State (NOG) Mouse Monoclonal Antibody [Clone ID: OTI1H8] – CF500029

Background:Noggin is a secreted polypeptide which binds and inactivates members of the transforming<br/>growth factor-beta (TGF-beta) superfamily signaling proteins, such as bone morphogenetic<br/>protein-4 (BMP4). By diffusing through extracellular matrices more efficiently than members<br/>of the TGF-beta superfamily, it may have a principal role in creating morphogenic gradients.<br/>Noggin appears to have pleiotropic effect, both early in development as well as in later<br/>stages. The results of the mouse knockout of the ortholog suggest that noggin is involved in<br/>numerous developmental processes, such as neural tube fusion and joint formation.<br/>Recently, several dominant human NOG mutations in unrelated families with proximal<br/>symphalangism (SYM1) and multiple synostoses syndrome (SYNS1) were identified; both<br/>SYM1 and SYNS1 have multiple joint fusion as their principal feature, and map to the same<br/>region (17q22) as this gene. All of these mutations altered evolutionarily conserved amino<br/>acid residues. The amino acid sequence of this human gene is highly homologous to that of<br/>Xenopus, rat and mouse.

Synonyms: SYM1; SYNS1; SYNS1A

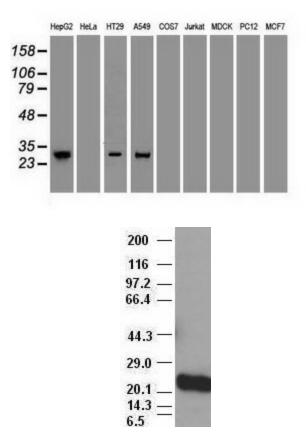
Protein Families:Druggable Genome, Secreted ProteinProtein Pathways:TGF-beta signaling pathway

#### **Product images:**



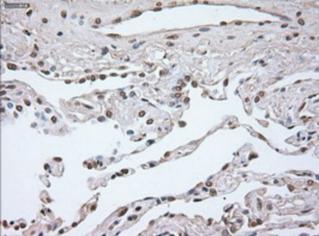
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY Nog (Cat# [RC205020], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-Nog(Cat# [TA500029]). Positive lysates [LY401672] (100ug) and [LC401672] (20ug) can be purchased separately from OriGene.

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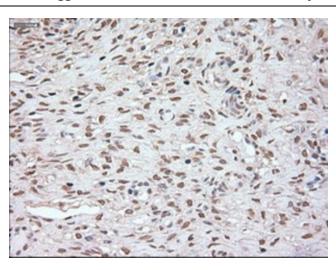
Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-Nog monoclonal antibody.

Noggin antibody (1H8) at 1:40000 + Recombinant human Noggin (Cat# [RC205020])

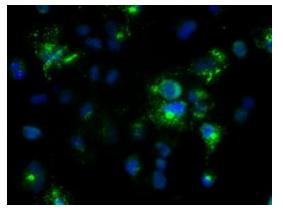


Immunohistochemical staining of paraffinembedded Human lung tissue within the normal limits using anti-Nog mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500029])

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Immunohistochemical staining of paraffinembedded Human Ovary tissue within the normal limits using anti-Nog mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500029])



Anti-Nog mouse monoclonal antibody ([TA500029]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY Nog ([RC205020]).

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