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Product datasheet for TA500029

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:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	1 mg/ml
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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	Noggin (NOG) Mouse Monoclonal Antibody [Clone ID: OTI1H8] – TA500029
Background:	Noggin is a secreted polypeptide which 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, it may have a principal role in creating morphogenic gradients. Noggin appears to have pleiotropic effect, both early in development as well as in later stages. The results of the mouse knockout of the ortholog suggest that noggin 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.
Synonyms:	SYM1; SYNS1; SYNS1A
Note:	WB application:Only overexpression results are guaranteed, not endogenous.
Protein Families	: Druggable Genome, Secreted Protein
Protein Pathwa	ys: TGF-beta signaling pathway

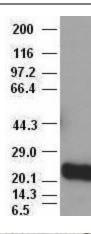
Product images:

 NC
 hNoggin
 mNoggin
 NC
 hNoggin
 mNoggin

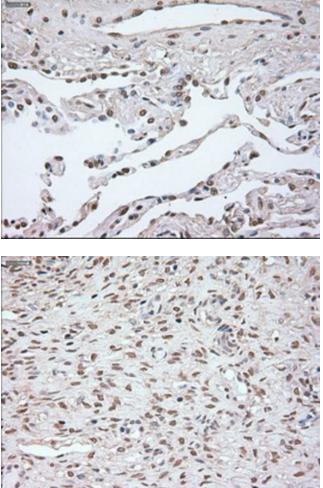
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Figure A, Western blot analysis of overexpressed lysates (15ug per lane) from HEK293T cells transfected with empty plasmid ([PS100001], NC), human Noggin plasmid ([RC205020], hNoggin), mouse Noggin plasmid ([MR225276], mNoggin) using anti-Noggin antibody TA500029 (1:10000@1mg/ml). Figure B, Western blot analysis of the same samples as figure A with anti-DDK antibody ([TA180144], 1:10000@1mg/ml)

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

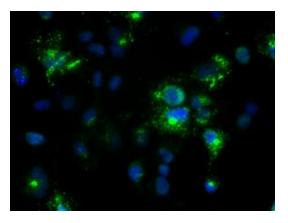


Immunohistochemical staining of paraffinembedded Human lung tissue within the normal limits using anti-Nog mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.

Immunohistochemical staining of paraffinembedded Human Ovary tissue within the normal limits using anti-Nog mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.

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

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