

## Rabbit NOG Polyclonal Antibody | anti-NOG antibody

NOG Antibody (Center)

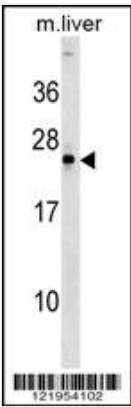
| CATALOG # | HOST   | REACTIVITY                               | APPLICATIONS        |
|-----------|--------|------------------------------------------|---------------------|
| AAA288140 | Rabbit | Human, mouse (Predicted Reactivity: Rat) | ELISA, Western Blot |

### PRODUCT SYNONYMS

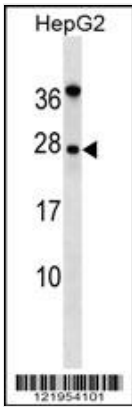
NOG; Polyclonal Antibody; NOG Antibody (Center); Noggin; anti-NOG antibody

### PRODUCT SPECIFICATIONS

|                                               |                                                                                                                                                                              |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                          | Rabbit                                                                                                                                                                       |
| Reactivity                                    | Human, mouse (Predicted Reactivity: Rat)                                                                                                                                     |
| Clonality                                     | Polyclonal                                                                                                                                                                   |
| Isotype                                       | Rabbit Ig                                                                                                                                                                    |
| Specificity                                   | This NOG antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 84-111 amino acids from the Central region of human NOG.               |
| Purity/Purification                           | Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)                                                                                                                   |
| Form/Format                                   | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| Concentration                                 | Vial Concentration: 0.32 (varies by lot)                                                                                                                                     |
| Sequence Positions                            | 84-111                                                                                                                                                                       |
| Sequence Length                               | 232                                                                                                                                                                          |
| Applicable Applications for anti-NOG antibody | ELISA, WB (Western Blot)                                                                                                                                                     |
| Antigen Type                                  | Synthetic Peptide                                                                                                                                                            |
| Antigen Source                                | HUMAN                                                                                                                                                                        |
| Preparation and Storage                       | Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.                       |



**WB (Western Blot)**  
NOG Antibody (Center) western blot analysis in mouse liver tissue lysates (35ug/lane).This demonstrates the NOG antibody detected the NOG protein (arrow).



**WB (Western Blot)**  
NOG Antibody (Center) western blot analysis in HepG2 cell line lysates (35ug/lane).This demonstrates the NOG antibody detected the NOG protein (arrow).

ADDITIONAL INFORMATION

|                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-NOG antibody | 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. |
| Product Categories/Family for anti-NOG antibody   | Developmental Biology; Signal Transduction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| References                                        | Rudnik-Schoneborn, S., et al. Am. J. Med. Genet. A 152A (6), 1540-1544 (2010) :<br>Song, K., et al. J. Biol. Chem. 285(16):12169-12180(2010)<br>Mangold, E., et al. Nat. Genet. 42(1):24-26(2010)<br>Gutierrez, S.J., et al. Acta Odontol Latinoam 23(1):13-19(2010)<br>Zhao, J., et al. BMC Med. Genet. 11, 96 (2010) :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

NCBI AND UNIPROT INFORMATION

|                           |             |
|---------------------------|-------------|
| NCBI GI #                 | 4885523     |
| NCBI GeneID               | 9241        |
| NCBI Accession #          | NP_005441.1 |
| NCBI GenBank Nucleotide # | NM_005450.4 |
| UniProt Accession #       | Q13253      |

|                                  |             |
|----------------------------------|-------------|
| Molecular Weight                 | 25774       |
| NCBI Official Full Name          | noggin      |
| NCBI Official Synonym Full Names | noggin      |
| NCBI Official Symbol             | NOG         |
| NCBI Official Synonym Symbols    | SYM1; SYNS1 |
| NCBI Protein Information         | noggin      |
| UniProt Protein Name             | Noggin      |
| UniProt Gene Name                | <b>NOG</b>  |
| UniProt Entry Name               | NOGG_HUMAN  |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/nog-antibody-western-blot-elisa/288140>