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Datasheet for ABIN2787823  
**anti-NOG antibody (Middle Region)**

1 Image

Overview

Quantity:	100 µL
Target:	NOG
Binding Specificity:	Middle Region
Reactivity:	Human, Mouse, Rat, Dog, Pig, Horse, Sheep, Cow
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NOG antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human NOG
Sequence:	GGHYDPGFMA TSPPEDRPGG GGGAAGGAED LAELDQLLRQ RPSGAMPSEI
Predicted Reactivity:	Cow: 100%, Dog: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Pig: 100%, Rat: 100%, Sheep: 100%
Characteristics:	This is a rabbit polyclonal antibody against NOG. It was validated on Western Blot.
Purification:	Affinity Purified

Target Details

Target:	NOG
Alternative Name:	NOG ( <a href="#">NOG Products</a> )

## Target Details

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**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.

Alias Symbols: SYM1, SYNS1

Protein Interaction Partner: BMP7, BMP5, BMP4, BMP2, NOG,

Protein Size: 232

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Molecular Weight: 24 kDa

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Gene ID: 9241

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NCBI Accession: [NM\\_005450](#), [NP\\_005441](#)

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UniProt: [Q13253](#)

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Pathways: [Stem Cell Maintenance](#), [Tube Formation](#)

## Application Details

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**Application Notes:** Optimal working dilutions should be determined experimentally by the investigator.

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**Comment:** Antigen size: 232 AA

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**Restrictions:** For Research Use only

## Handling

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**Format:** Liquid

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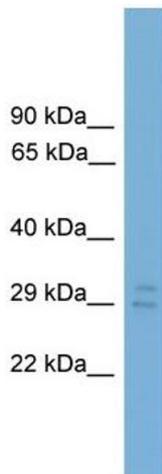
**Concentration:** Lot specific

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## Handling

Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

## Images



### Western Blotting

**Image 1.** WB Suggested Anti-NOG Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:312500 Positive Control: ACHN cell lysate