

Datasheet for ABIN7264331

anti-NOG antibody[Go to Product page](#)**1** Image

Overview

Quantity:	200 µL
Target:	NOG
Reactivity:	Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NOG antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	Recombinant fusion protein of human NOG (NP_005441.1).
Isotype:	IgG
Characteristics:	Polyclonal Antibody
Purification:	Affinity purification

Target Details

Target:	NOG
Alternative Name:	NOG (NOG Products)
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

Target Details

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.

Molecular Weight:	Observed_MW: 28 kDa Calculated_MW: 25 kDa
-------------------	--

Gene ID:	9241
----------	------

UniProt:	Q13253
----------	------------------------

Pathways:	Stem Cell Maintenance , Tube Formation
-----------	--

Application Details

Application Notes:	WB 1:500-1:2000
--------------------	-----------------

Restrictions:	For Research Use only
---------------	-----------------------

Handling

Format:	Liquid
---------	--------

Concentration:	1 mg/mL
----------------	---------

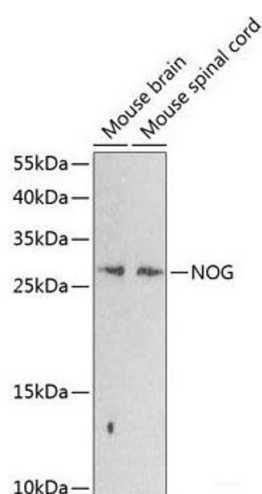
Buffer:	PBS with 0.02 % sodium azide, 50 % glycerol, pH 7.3
---------	---

Preservative:	Sodium azide
---------------	--------------

Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
--------------------	--

Storage:	-20 °C
----------	--------

Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.
------------------	---



Western Blotting

Image 1. Western blot analysis of extracts of various cell lines using NOG Polyclonal Antibody at dilution of 1:1000.