

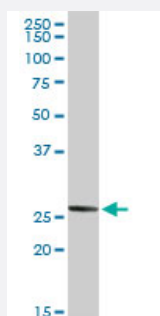
MaxPab®

NOG MaxPab rabbit polyclonal antibody (D01)

Catalog # H00009241-D01

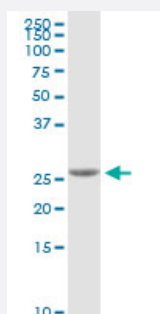
Size 100 uL

Applications



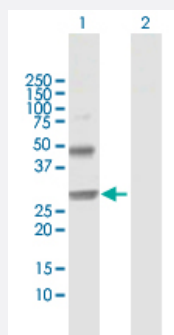
Western Blot (Tissue lysate)

NOG MaxPab rabbit polyclonal antibody. Western Blot analysis of NOG expression in human liver.



Western Blot (Cell lysate)

NOG MaxPab rabbit polyclonal antibody. Western Blot analysis of NOG expression in Jurkat.

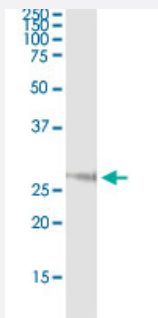


Western Blot (Transfected lysate)

Western Blot analysis of NOG expression in transfected 293T cell line ([H00009241-T02](#)) by NOG MaxPab polyclonal antibody.

Lane 1: NOG transfected lysate(25.80 KDa).

Lane 2: Non-transfected lysate.



Immunoprecipitation

Immunoprecipitation of NOG transfected lysate using anti-NOG MaxPab rabbit polyclonal antibody and Protein A Magnetic Bead, and immunoblotted with NOG purified MaxPab mouse polyclonal antibody (B01P) ([H00009241-B01P](#)).

Specification

Product Description	Rabbit polyclonal antibody raised against a full-length human NOG protein.
Immunogen	NOG (NP_005441.1, 1 a.a. ~ 232 a.a) full-length human protein.
Sequence	MERCPSLGVTLYALVVVLGLRATPAGGQHYLHIRPAPSDNLPLVDLIEHPDPIFDPKEKDLNETLLR SLLGGHYDPGFMATSPPEDRPGGGGGAAGGAEDLAELDQLLRQRPSGAMPSEIKGLEFSEGLA QGKKQRLSKKLRRKLQMWLWSQTFCPVLYAWNDLGSRFWPRYVKVGSCFSKRSCSVPEGMV CKPSKSVHLTVLRWRCQRRGGQRCGWIPYIPISECKCSC
Host	Rabbit
Reactivity	Human
Interspecies Antigen Sequence	Mouse (99); Rat (99)
Quality Control Testing	Antibody reactive against mammalian transfected lysate.
Storage Buffer	No additive
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Tissue lysate)

NOG MaxPab rabbit polyclonal antibody. Western Blot analysis of NOG expression in human liver.

[Protocol Download](#)

- Western Blot (Cell lysate)

NOG MaxPab rabbit polyclonal antibody. Western Blot analysis of NOG expression in Jurkat.

[Protocol Download](#)

- Western Blot (Transfected lysate)

Western Blot analysis of NOG expression in transfected 293T cell line ([H00009241-T02](#)) by NOG MaxPab polyclonal antibody.

Lane 1: NOG transfected lysate(25.80 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

- Immunoprecipitation

Immunoprecipitation of NOG transfected lysate using anti-NOG MaxPab rabbit polyclonal antibody and Protein A Magnetic Bead, and immunoblotted with NOG purified MaxPab mouse polyclonal antibody (B01P) ([H00009241-B01P](#)).

[Protocol Download](#)

Gene Info — NOG

Entrez GeneID	9241
---------------	----------------------

GeneBank Accession#	NM_005450
---------------------	---------------------------

Protein Accession#	NP_005441.1
--------------------	-----------------------------

Gene Name	NOG
-----------	-----

Gene Alias	SYM1, SYNS1
------------	-------------

Gene Description	noggin
------------------	--------

Omim ID	184460 185800 186500 186570 602991
---------	--

Gene Ontology	Hyperlink
---------------	---------------------------

Gene Summary

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 knock out 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. [provided by RefSeq]

Other Designations

symphalangism 1 (proximal)

Pathway

- [TGF-beta signaling pathway](#)

Disease

- [Diabetes Mellitus](#)
- [Genetic Predisposition to Disease](#)
- [Neural Tube Defects](#)
- [Obesity](#)
- [Osteoporosis](#)
- [Ovarian Failure](#)
- [Polycystic Ovary Syndrome](#)
- [Puberty](#)
- [Thrombophilia](#)
- [Tobacco Use Disorder](#)