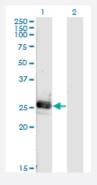


NOG monoclonal antibody (M04), clone 4A1

Catalog # H00009241-M04 Size 100 ug

Applications

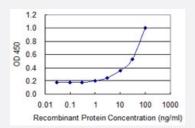


Western Blot (Transfected lysate)

Western Blot analysis of NOG expression in transfected 293T cell line by NOG monoclonal antibody (M04), clone 4A1.

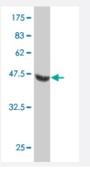
Lane 1: NOG transfected lysate(25.8 KDa).

Lane 2: Non-transfected lysate.



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged NOG is 0.3 ng/ml as a capture antibody.



Western Blot detection against Immunogen (48.29 KDa).

Specification

Product Description

Mouse monoclonal antibody raised against a full length recombinant NOG.



Product Information

lmmunogen	NOG (AAH34027, 28 a.a. ~ 232 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	QHYLHIRPAPSDNLPLVDLIEHPDPIFDPKEKDLNETLLRSLLGGHYDPGFMATSPPEDRPGGGGG AAGGAEDLAELDQLLRQRPSGAMPSEIKGLEFSEGLAQGKKQRLSKKLRRKLQMWLWSQTFCP VLYAWNDLGSRFWPRYVKVGSCFSKRSCSVPEGMVCKPSKSVHLTVLRWRCQRRGGQRCGWI PIQYPIISECKCSC
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (99); Rat (99)
Isotype	lgG2b Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (48.29 KDa).
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

Western Blot (Transfected lysate)

Western Blot analysis of NOG expression in transfected 293T cell line by NOG monoclonal antibody (M04), clone 4A1.

Lane 1: NOG transfected lysate(25.8 KDa).

Lane 2: Non-transfected lysate.

Protocol Download

• Western Blot (Recombinant protein)

Protocol Download

Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged NOG is 0.3 $\,\mathrm{ng/ml}$ as a capture antibody.

Protocol Download

ELISA



Gene Info — NOG	
Entrez GenelD	9241
GeneBank Accession#	BC034027
Protein Accession#	AAH34027
Gene Name	NOG
Gene Alias	SYM1, SYNS1
Gene Description	noggin
Omim ID	<u>184460 185800 186500 186570 602991</u>
Gene Ontology	<u>Hyperlink</u>
Gene Summary	The secreted polypeptide, encoded by this gene, binds and inactivates members of the transform ing 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