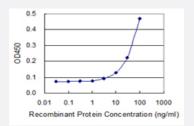


NOG monoclonal antibody (M02), clone 3A2

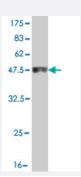
Catalog # H00009241-M02 Size 100 ug

Applications



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged NOG is 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.
Immunogen	NOG (AAH34027, 28 a.a. ~ 232 a.a) full-length recombinant protein with GST tag. MW of the GST ta g alone is 26 KDa.
Sequence	QHYLHIRPAPSDNLPLVDLIEHPDPIFDPKEKDLNETLLRSLLGGHYDPGFMATSPPEDRPGGGGG AAGGAEDLAELDQLLRQRPSGAMPSEIKGLEFSEGLAQGKKQRLSKKLRRKLQMWLWSQTFCP VLYAWNDLGSRFWPRYVKVGSCFSKRSCSVPEGMVCKPSKSVHLTVLRWRCQRRGGQRCGWI PIQYPIISECKCSC
Host	Mouse
Reactivity	Human

😵 Abnova

Product Information

Interspecies Antigen Sequence	Mouse (99); Rat (99)
lsotype	lgG2a 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 (Recombinant protein)
 <u>Protocol Download</u>
- Sandwich ELISA (Recombinant protein)
 Detection limit for recombinant GST tagged NOG is 3 ng/ml as a capture antibody.
 <u>Protocol Download</u>
- ELISA

Gene Info — NOG

Entrez GenelD	<u>9241</u>
GeneBank Accession#	<u>BC034027</u>
Protein Accession#	<u>AAH34027</u>
Gene Name	NOG
Gene Alias	SYM1, SYNS1
Gene Description	noggin
Omim ID	<u>184460 185800 186500 186570 602991</u>
Gene Ontology	Hyperlink



Gene Summary

Product Information

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 pr otein-4 (BMP4). By diffusing through extracellular matrices more efficiently than members of the T GF-beta superfamily, this protein may have a principal role in creating morphogenic gradients. Th e 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 axi s 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 neur al tube fusion and joint formation. Recently, several dominant human NOG mutations in unrelated f amilies with proximal symphalangism (SYM1) and multiple synostoses syndrome (SYNS1) were i dentified; both SYM1 and SYNS1 have multiple joint fusion as their principal feature, and map to t he same region (17q22) as this gene. All of these mutations altered evolutionarily conserved amin o acid residues. The amino acid sequence of this human gene is highly homologous to that of Xe nopus, rat and mouse. [provided by RefSeq

Other Designations

symphalangism 1 (proximal)

Pathway

• TGF-beta signaling pathway

Disease

- Diabetes Mellitus
- Genetic Predisposition to Disease
- <u>Neural Tube Defects</u>
- Obesity
- Osteoporosis
- Ovarian Failure
- Polycystic Ovary Syndrome
- Puberty
- Thrombophilia
- <u>Tobacco Use Disorder</u>