

Rabbit Noggin/NOG Polyclonal Antibody | anti-NOG antibody

Anti-Noggin/NOG Antibody, Rabbit Polyclonal

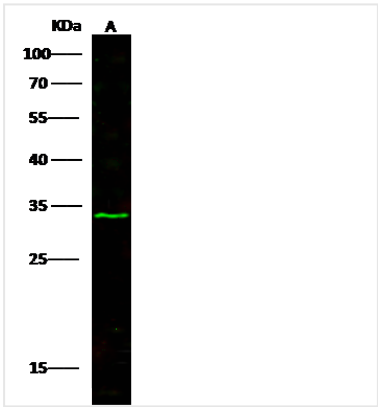
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA254196	Rabbit	Human Predicted to React with: Mouse (Species predicted to react based on 100% sequence homology)	Immunoprecipitation, Western Blot

PRODUCT SYNONYMS

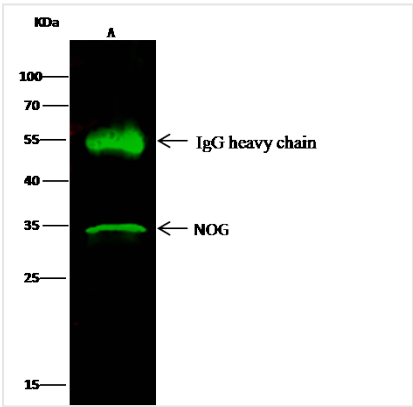
Noggin/NOG; Polyclonal Antibody; Anti-Noggin/NOG Antibody; Rabbit Polyclonal; NOG Antibody; Rabbit PAb; Antigen Affinity Purified; noggin; Anti-Noggin Antibody; Anti-SYM1 Antibody; Anti-SYNS1 Antibody; anti-NOG antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human Predicted to React with: Mouse (Species predicted to react based on 100% sequence homology)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human Noggin/NOG
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-NOG antibody	IP (Immunoprecipitation), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to the N-terminus of the human NOG
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with A synthetic peptide corresponding to the N-terminus of the human NOG, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.



WB (Western Blot)
Anti-NOG rabbit polyclonal antibody at 1:500 dilutionLane A: HEK293 Whole Cell LysateLysates/proteins at 30 ug per lane.SecondaryGoat Anti-Rabbit IgG H&L (Dylight800) at 1/10000 dilution.Developed using the Odyssey technique.Performed under reducing conditions.Predicted band size:26 kDaObserved band size:33 kDa



IP (Immunoprecipitation)
NOG was immunoprecipitated using:Lane A:0.5 mg A549 Whole Cell Lysate0.5 uL anti-NOG rabbit polyclonal antibody and 15 ul of 50 % Protein G agarose.Primary antibody:Anti-NOG rabbit polyclonal antibody,at 1:350 dilutionSecondary antibody:Dylight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilutionDeveloped using the odssey technique.Performed under reducing conditions.Predicted band size: 33 kDaObserved band size: 33 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-NOG antibody	Noggin is a secreted protein involved at multiple stages of vertebrate embryonic development including neural induction and is known to exert its effects by inhibiting the bone morphogenetic protein (BMP)-signaling pathway. It binds several BMPs with very high (picomolar) affinities, with a marked preference for BMP2 and BMP4 over BMP7. By binding tightly to BMPs, Noggin prevents BMPs from binding their receptors. Noggin binds the bone morphogenetic proteins (BMP) such as BMP-4 and BMP-7 and inhibits BMP signaling by blocking the molecular interfaces of the binding epitopes for both types I and type II receptors. Interaction of BMP and its antagonist Noggin governs various developmental and cellular processes, including embryonic dorsal-ventral axis, induction of neural tissue, the formation of joints in the skeletal system, and neurogenesis in the adult brain. Noggin plays a key role in neural induction by inhibiting BMP4, along with other TGF-beta signaling inhibitors such as chordin and follistatin. Mouse knockout experiments have demonstrated that noggin also plays a crucial role in bone development, joint formation, and neural tube fusion.
References	Zimmerman LB, et al. (1996) The Spemann organizer signal noggin binds and inactivates bone morphogenetic protein 4. Cell. 86(4): 599-606.Chandramore K, et al. (2010) Cloning of noggin gene from hydra and analysis of its functional conservation using Xenopus laevis embryos. Evol Dev. 12(3): 267-74.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4885523
NCBI GeneID	9241
NCBI Accession #	NP_005441.1
NCBI GenBank Nucleotide #	NP_005441.1
UniProt Accession #	Q13253
NCBI Official Full Name	noggin
NCBI Official Synonym Full Names	noggin
NCBI Official Symbol	NOG
NCBI Official Synonym Symbols	SYM1; SYNS1; SYNS1A
NCBI Protein Information	noggin
UniProt Protein Name	Noggin
UniProt Gene Name	NOG

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/noggin-nog-antibody-immunoprecipitation-western-blot-elisa/254196>