Datasheet for ABIN1538655

anti-NOG antibody (AA 84-111)

2 Images

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Overview

Quantity:	400 µL
Target:	NOG
Binding Specificity:	AA 84-111
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB)

Product Details

Immunogen:	This NOG antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 84-111 amino acids from the Central region of human NOG.
Clone:	RB21954
Isotype:	Ig Fraction
Predicted Reactivity:	Rat
Purification:	This antibody is purified through a protein A column, followed by peptide 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

Target Details

	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 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:	25774
Gene ID:	9241
NCBI Accession:	NP_005441
UniProt:	Q13253
Pathways:	Stem Cell Maintenance, Tube Formation

Application Details

Application Notes:	WB: 1:1000. WB: 1:1000
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
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:	4 °C,-20 °C

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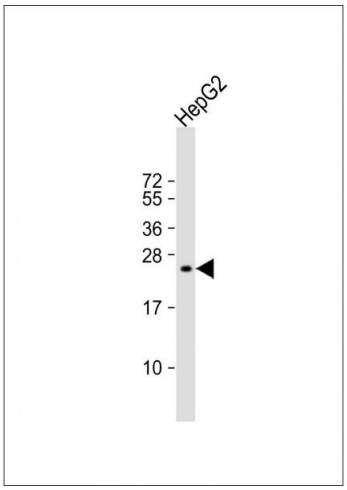
Handling

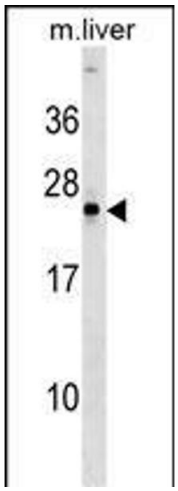
Storage Comment:	NOG Antibody (Center) can be refrigerated at 2-8 °C for up to 6 months. For long term storage, keep at -20 °C.
Expiry Date:	6 months

Images



Western Blotting

Image 1. Anti-NOG Antibody (Center) at 1:1000 dilution + HepG2 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 26 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.



Western Blotting

Image 2. NOG Antibody (Center) (ABIN1538655 and ABIN2849634) western blot analysis in mouse liver tissue lysates (35 µg/lane).This demonstrates the NOG antibody detected the NOG protein (arrow).