



Catalog: OM644035

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# Noggin Recombinant Rabbit Monoclonal Antibody

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☐ 20ul ☐ 50ul ☐ 100ul

## Product profile

Product name	Noggin Recombinant Rabbit Monoclonal Antibody
Antibody Type	Primary Antibodies
Immunogen	Recombinant protein within human Noggin aa 28-232.
Modification	Unmodification

## Key Feature

Clonality	monoclonal
Isotype	IgG
Host Species	Rabbit
Tested Application	<b>IHC</b> <b>WB</b>  <b>WB:</b> 1:2000 <b>IHC:</b> 1:50000
Species Reactivity	<b>Human</b> <b>Mouse</b> <b>Rat</b>
Concentration	1mg/ml
Purification	Protein A

## Target Information

Gene Symbol	NOG
Gene Synonyms	SYM1 SYNS1 SYNS1A
Gene Full Name	noggin

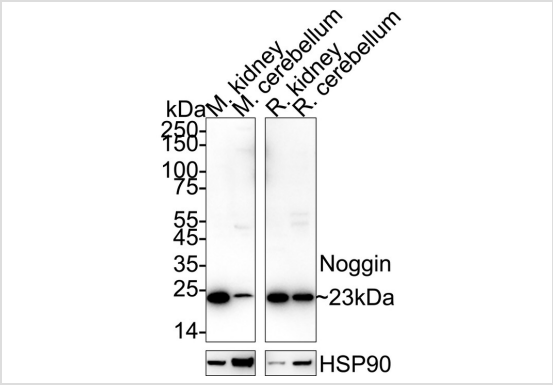
Gene Summary

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 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. [provided by RefSeq, Jul 2008]

Molecular Weight(MW) 26kDa(Observed band size: 23kDa)

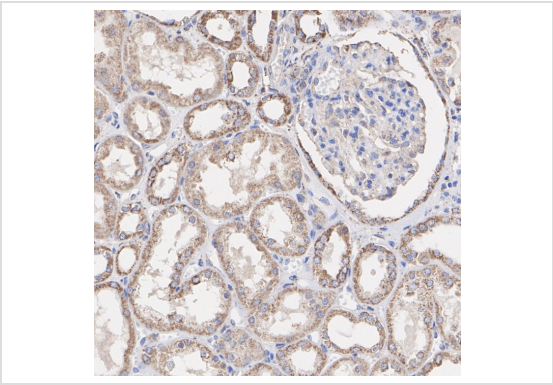
Cellular Localization Secreted.

Application



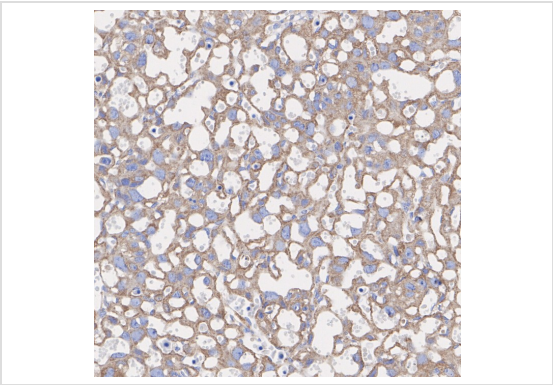
WB

Western blot analysis of Noggin on different lysates with Rabbit anti-Noggin antibody at 1/2,000 dilution. Lane 1: Mouse kidney tissue lysate, Lane 2: Mouse cerebellum tissue lysate, Lane 3: Rat kidney tissue lysate, Lane 4: Rat cerebellum tissue lysate, Lysates/proteins at 20 µg/Lane. Exposure time: 1 minute; 4-20% SDS-PAGE gel. Proteins were transferred to a PVDF membrane and blocked with 5% NFDm/TBST for 1 hour at room temperature. The primary antibody at 1/2,000 dilution was used in 5% NFDm/TBST at 4h overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody at 1/50,000 dilution was used for 1 hour at room temperature.



IHC

Immunohistochemical analysis of paraffin-embedded human kidney tissue with Rabbit anti-Noggin antibody at 1/50,000 dilution. The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH2O and PBS, and then probed with the primary antibody at 1/50,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX



IHC

Immunohistochemical analysis of paraffin-embedded mouse placenta tissue with Rabbit anti-Noggin antibody at 1/50,000 dilution. The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH2O and PBS, and then probed with the primary antibody at 1/50,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX

Application Notes

WB:1:2000  
IHC:1:50000

Additional Information

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<b>Form</b>	Liquid
<b>Storage Instructions</b>	Store at +4I after thawing. Aliquot store at -20I. Avoid repeated freeze / thaw cycles.
<b>Storage Buffer</b>	1*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

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This product is for research use only and is not approved for use in humans or in clinical diagnosis.Primary Antibodies are guaranteed for 1 year from date of receipt

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