

Noggin (NOG) Active Protein | NOG active protein

Active Noggin (NOG)

CATALOG # AAA148132	REACTIVITY Rat	APPLICATIONS Activity Assay, Cell Culture
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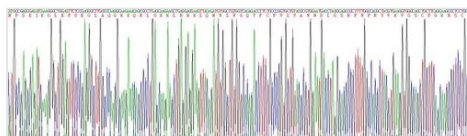
PRODUCT SYNONYMS

Noggin (NOG); Active Noggin (NOG); SYM1; SYNS1; Synostoses(Multiple)Syndrome 1; Symphalangism 1(Proximal); NOG active protein

PRODUCT SPECIFICATIONS

Reactivity	Rat
Purity/Purification	> 97%
Form/Format	Freeze-dried powder
Sequence Length	144
Applicable Applications for NOG active protein	Activity Assay, Cell Culture
Tag	Two N-terminal Tags, His-tag and MBP-tag
Buffer Formulation	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Fragment	Met28~Cys144
Isoelectric Point	6.6

IMAGES



Application Data

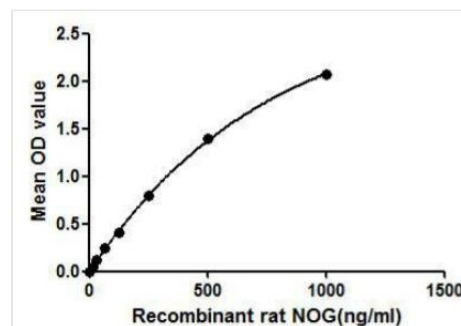
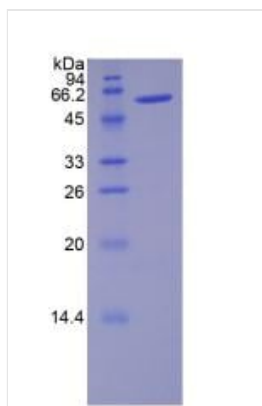


Figure 1. The binding activity of NOG with BMP4.

Application Data



SDS-PAGE

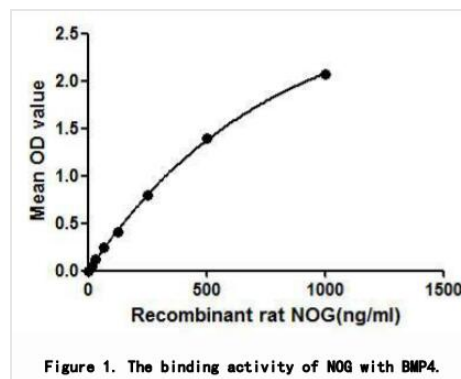


Figure 1. The binding activity of NOG with BMP4.

Activity

NOG (Noggin) is a signaling molecule that plays an important role in promoting somite patterning in the developing embryo, essential for cartilage morphogenesis and joint formation. It is considered as an inhibitor in bone morphogenetic proteins (BMP) signaling, by binding with BMP4, thus a binding ELISA assay was conducted to detect the association of recombinant rat NOG with BMP4. Briefly, NOG were diluted serially in PBS with 0.01%BSA (pH 7.4). Duplicate samples of 100uL were then transferred to BMP4-coated microtiter wells and incubated for 2h at 37 degree C. Wells were washed with PBST and incubated for 1h with anti-NOG pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37 degree C. Finally, add 50uL stop solution to the wells and read at 450nm immediately. The binding activity of NOG with BMP4 was shown in Figure 1 and this effect was in a dose dependent manner.

ADDITIONAL INFORMATION

Product Categories/Family for NOG active protein	Signal transduction; Immune molecule; Neuroscience; Bone metabolism
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NCBI AND UNIPROT INFORMATION

UniProt Accession #	Q62809
Molecular Weight	Predicted Molecular Weight: 63.6kDa Accurate Molecular Weight: 64kDa
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://stage.aaabiotech.com/rat-active-protein/noggin-nog/148132>