Noggin Mouse mAb

CatalogNo: YM1365

Key Features

Host Species
- Mouse

Applications
- WB,ICC

MW
- 26kD (Observed)

Recommended Dilution Ratios

WB 1:1000
ICC 1:100

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality	Monoclonal

Immunogen Information

Immunogen	Purified recombinant human Noggin protein fragments expressed in E.coli.
Specificity	Transfected Only.

Target Information

Gene name	nog

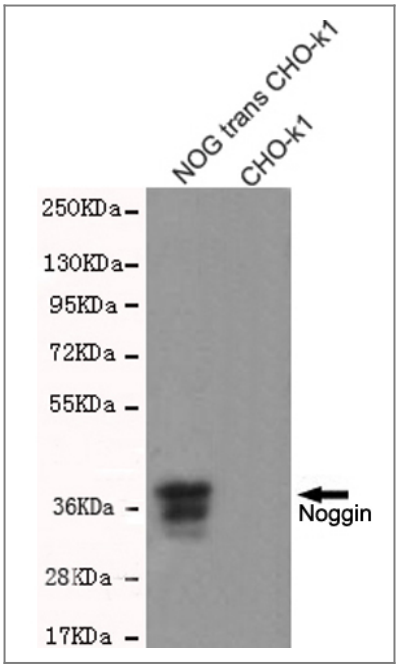
Protein Name	Organism	Gene ID	UniProt ID
	Human	9241;	Q13253;
	Mouse		P97466;

Cellular Localization Secreted.

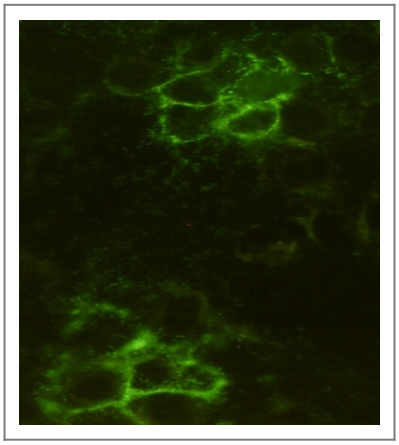
Tissue specificity Placenta,Prostate,Temporal cortex,

Function Disease:Defects in NOG are a cause of stapes ankylosis with broad thumb and toes [MIM:184460]. Stapes ankylosis with broad thumb and toes is a congenital autosomal dominant disorder that includes hyperopia, a hemicylindrical nose, broad thumbs, great toes, and other minor skeletal anomalies but lacked carpal and tarsal fusion and symphalangism.,Disease:Defects in NOG are a cause of symphalangism proximal syndrome (SYM1) [MIM:185800]. SYM1 is characterized by the hereditary absence of the proximal interphalangeal (PIP) joints (Cushing symphalangism). Severity of PIP joint involvement diminishes towards the radial side. Distal interphalangeal joints are less frequently involved and metacarpophalangeal joints are rarely affected whereas carpal bone malformation and fusion are common. In the lower extremities, tarsal bone coalition is common. Conducive hearing loss is seen and is due to fusion of the stapes to the petrous part of the temporal bone.,Disease:Defects in NOG are the cause of brachydactyly type B2 (BDB2) [MIM:611377]. BDB2 is a subtype of brachydactyly characterized by hypoplasia/aplasia of distal phalanges in combination with distal symphalangism, fusion of carpal/tarsal bones, and partial cutaneous syndactyly.,Disease:Defects in NOG are the cause of multiple synostoses syndrome 1 (SYNS1) [MIM:186500]; also known as synostoses, multiple, with brachydactyly/symphalangism-brachydactyly syndrome. SYNS1 is characterized by tubular-shaped (hemicylindrical) nose with lack of alar flare, otosclerotic deafness, and multiple progressive joint fusions commencing in the hand. The joint fusions are progressive, commencing in the fifth proximal interphalangeal joint in early childhood (or at birth in some individuals) and progressing in an ulnar-to-radial and proximal-to-distal direction. With increasing age, ankylosis of other joints, including the cervical vertebrae, hips, and humeroradial joints, develop.,Disease:Defects in NOG are the cause of tarsal-carpal coalition syndrome (TCC) [MIM:186570]. TCC is an autosomal dominant disorder characterized by fusion of the carpals, tarsals and phalanges, short first metacarpals causing brachydactyly, and humeroradial fusion. TCC is allelic to SYM1, and different mutations in NOG can result in either TCC or SYM1 in different families.,Function:Essential for cartilage morphogenesis and joint formation. Inhibitor of bone morphogenetic proteins (BMP) signaling which is required for growth and patterning of the neural tube and somite.,similarity:Belongs to the noggin family.,subunit:Homodimer; disulfide-linked.,

Validation Data



Western blot detection of Noggin in CHO-K1 cell lysates over-expressing Noggin-PDGFR transmembrane domain fused protein using Noggin mouse mAb (1:1000 diluted).Predicted band size:26KDa.Observed band size:37KDa.



Immunocytochemistry staining of HeLa cells surface-expressing Noggin-PDGFR transmembrane domain fused protein using Noggin mouse mAb (dilution 1:100).

Contact information

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Please scan the QR code to access additional product information:
Noggin Mouse mAb