SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-Nidogen antibody

Catalog Number: SL23656R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Nidogen
Immunogen:	KLH conjugated synthetic peptide derived from human Nidogen: 201-300/1247
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Mouse,Rat
Predicted MW.:	133kDa
Subcellular Location:	The cell membrane Extracellular matrix Secretory protein
Background:	Basement membranes are the earliest extracellular matrices produced during embryogenesis. They are synthesized and incorporated into the supramolecular architecture of several components, including laminins, Collagen IV, Nidogen and proteoglycans. Nidogen/Entactin, a sulfated glycoprotein, acts as a link between the extracellular matrix molecules Laminin 1 and Collagen Type IV, and thereby participates in the assembly of basement membranes. Nidogen is a highly conserved member of the Nidogen family, which also includes Nidogen-2. Nidogen-2 has a high level of N- and O-glycosylation, and it interacts with Collagens Type I and IV and Perlecan at a comparable level to Nidogen. Nidogen is synthesized and secreted in primary and established mesenchymal peritubular cells and myoepithelial cells, and it

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	affects adhesion of peritubular cells in an autocrine manner. Nidogen is expressed during embryonic and fetal development exclusively in fully developed basement membranes of the ectoderm and is not expressed in the developing endodermal basement membrane or in membranes disrupted during mesoderm formation. Nidogen also cooperates with Laminin 1 to regulate b-casein expression. **Function:** Sulfated glycoprotein widely distributed in basement membranes and tightly associated with laminin. Also binds to collagen IV and perlecan. It probably has a role in cell-extracellular matrix interactions. **Subunit:** Interacts with FBLN1 and LGALS3BP. Interacts with PLXDC1. **Subcellular Location:** Secreted, extracellular space, extracellular matrix, basement membrane. **Post-translational modifications:** N- and O-glycosylated. **Similarity:** Contains 6 EGF-like domains. Contains 1 NIDO domain. Contains 1 nidogen G2 beta-barrel domain. Contains 1 thyroglobulin type-1 domain. **Database links:** **Entrez Gene:** 534319 Cow **Entrez Gene:** 4811 Human **Entrez Gene:** 18073 Mouse **Entrez Gene:** 25494 Rat Omim: 131390 Human **SwissProt:** P14543 Human **SwissProt:** P10493 Mouse **SwissProt:** P08460 Rat **Unigene:** 356624 Human **Unigene:** 4691 Mouse **Unigene:** 105658 Rat

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[VALIDATION IMAGES]

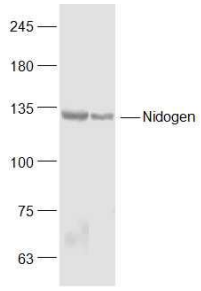


Figure 1. Sample: Placenta (Mouse) Lysate at 40 ug Embryo (Mouse) Lysate at 40 ug Primary: Anti-Nidogen (SL23656R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 133 kD Observed band size: 133 kD

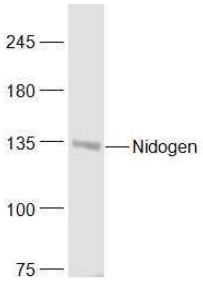


Figure 2. Sample: JEG-3(Human) Cell Lysate at 30 ug Primary: Anti-Nidogen (SL23656R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 133 kD Observed band size: 133 kD

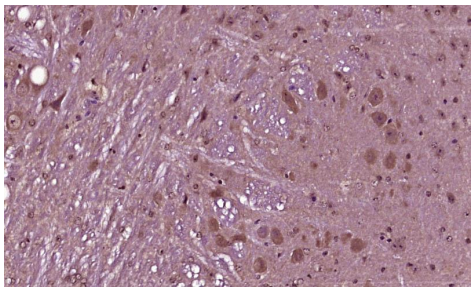


Figure 3. Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Nidogen) Polyclonal Antibody, Unconjugated (SL23656R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining

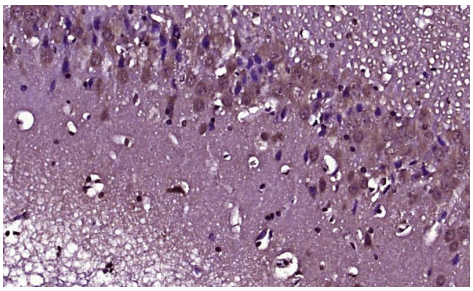


Figure 4. Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Nidogen) Polyclonal Antibody, Unconjugated (SL23656R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining

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