# Data Sheet (Cat.No.TMAB-09475)

## Anti-Nidogen Polyclonal Antibody

### Product Details

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| Ig Type: | IgG |
| Reactivity: | Human,Mouse,Rat |
| Molecular Weight: | Theoretical: 133 kDa. Actual: 133 kDa. |
| Purification: | Protein A purified |

### Applications

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| Verified Activity: | 1. Sample: JEG-3 (Human) Cell Lysate at 30 µg<br>Primary: Anti-Nidogen (TMAB-09475) at 1/1000 dilution<br>Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution<br>Predicted band size: 133 kD<br>Observed band size: 133 kD<br>2. Sample:<br>Placenta (Mouse) Lysate at 40 µg<br>Embryo (Mouse) Lysate at 40 µg<br>Primary: Anti-Nidogen (TMAB-09475) at 1/1000 dilution<br>Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution<br>Predicted band size: 133 kD<br>Observed band size: 133 kD<br>3. Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Nidogen) Polyclonal Antibody, Unconjugated (TMAB-09475) at 1:400 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.<br>4. Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Nidogen) Polyclonal Antibody, Unconjugated (TMAB-09475) at 1:400 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining. |
| Application: | WB,IHC-P,IHC-Fr,IF |
| Recommended | WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500 |

### Properties

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| Stability & Storage: | Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. |
| Shipping: | Shipping with blue ice. |

## Antigen Details

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| Immunogen: | KLH conjugated synthetic peptide: human Nidogen |
| Antigen Species: | Human |
| Gene ID: | 4811 |
| Uniprot ID: | P14543 |

## Research 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 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.



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