

Product: Anti-Nephrin
Catalog #: 03-GP-N2
Amount: 25 µl

CATEGORY: Guinea pig Polyclonal (GP-N2)
FORM: Whole Antiserum containing 0.1% sodium azide
IMMUNOGEN: Synthetic peptide (intracellular domain, aa1243-1256)
DESCRIPTION/SPECIFICITY: The antibody reacts specifically with nephrin, first described as a kidney podocyte marker protein (MW 135,000 calculated from aa sequence data; apparent Mr 185,000 after SDS-PAGE). Nephrin is a transmembrane cell adhesion molecule located at the slit diaphragm.
IMMUNOLOCALIZATION: The antibody stains positively podocytes of the kidney, radial glial cells of the brain, Sertoli cells of testis, and beta islet cells of the pancreas
ANTIGEN RECOGNIZED IN SPECIES (tested so far): Human, Mouse
REACTIVITIES IN CULTURE CELL LINES (tested so far): PCL (podocyte cell line), M-1 (cortical collecting duct cells)
APPLICATION: Immunohistochemistry on frozen and paraffin (microwave treatment) sections
Immunofluorescence
Immunoblotting (western, ECL)
WORKING DILUTION: 1:50 for immunohistochemistry
1:500 for immunoblotting (ECL method)
INCUBATION TIME: 1 hour at room temperature extended for paraffin sections
DILUTION BUFFER: PBS with 0.5% BSA and 0.1% Na-Azide
STORAGE: 2-8°C for immediate use, or at -20°C (aliquot)

REFERENCES:

Kestila M. et al. (1998) Mol Cell. **4**: 575-582
Ruotsalainen V. et al. (1999) Proc Natl Acad Sci USA. **96**: 7962-7967
Holthofer H. et al. (1999) Am J Pathol **155**: 1681-1687
Putala H. et al. (2001) Hum Mol Genet **10**: 1-8
Huh W, Kim et al. (2002) Nephrol Dial Transplant **17**: 478-484
Aaltonen P. et al. (2001) Lab Invest **81**: 1185-1190
Bussolati B. et al. (2005) J Am Soc Nephrol **16**: 1936-1947

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