

Volume: 25 ml

Lot # HN 11-401

## Sheep Anti-Fx1A Serum (PTX-002S)

### *For the Induction of Passive Heymann Nephritis (PHN)*

#### Materials supplied:

Anti-Fx1A Serum, 25 ml, in 0.02 M phosphate buffered saline PBS, pH 7.3. Store at -20 C or below. Avoid repeated freeze-thaw. *Centrifuge 3,000 rpm prior to use.*

#### Directions for use:

This package contains sufficient antibody to induce passive Heymann nephritis in 25 rats\* (175-200 gm) when used according to the instructions below. Please read carefully before starting the procedure.

*Injection of anti-Fx1A Serum:* Anesthetize rats and inject 0.5 ml/ 100 gm body weight of anti-Fx1A serum into a tail vein over a 15-30 second period. Production of disease is dose dependent, it is important that the complete dose of antibody is delivered. For a more severe disease inject more volume of antibody. Doses over 2 ml are not recommended.

#### Description of Renal Disease<sup>1</sup>

**Heterologous disease** Faint-moderate immunofluorescence deposits of heterologous sheep IgG are noticeable in glomerular capillaries within minutes increasing in intensity and granularity by 3-5 days after injection of a single bolus of anti-Fx1A. Rat C<sub>3</sub> also localizes in a granular pattern and proteinuria develops after 5 days.

**Autologous disease** becomes noticeable after 7-10 days following administration of anti-Fx1A antibody evidenced by increased proteinuria and glomerular localization of rat (autologous) IgG in a "string of pearls" pattern by immunohistochemistry (Figure 1A) and subepithelial immune deposits by electron microscopy (Figure 1B). By 3 wks proteinuria can be expected to reach 100-200 mg/24 hours (Bradford assay). Within the first few weeks glomeruli are unremarkable by routine light microscopy, progressing to thickened basement membranes, increased mesangial matrix, and possibly sclerosis after about 3 months<sup>1#</sup>.

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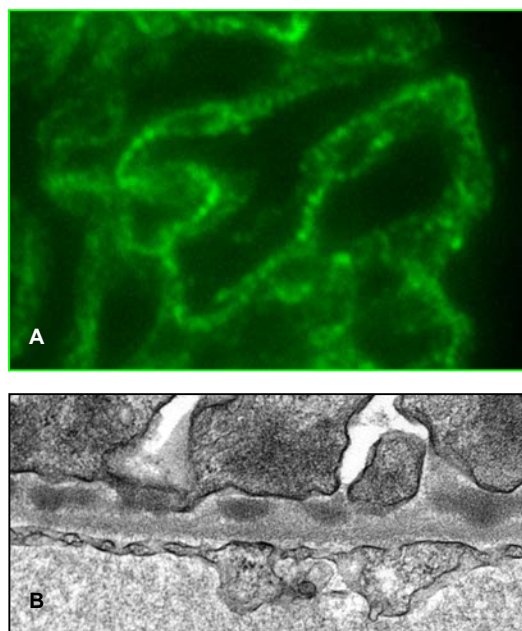


Figure 1A. Immunofluorescence localization of immune deposits (sheep IgG) in a "string of pearls" pattern in the glomerular capillary wall 2-weeks after initiation of Heymann nephritis. (B): Electron dense deposits localize in the subepithelial space.

1. Salant DJ, Cybulsky AV: Experimental glomerulonephritis. *Meth Enzymol* 162:421-461, 1988.

\* Male Sprague-Dawley strain recommended. Other strains not tested.

# Chronic disease not verified using Probetex anti-Fx1A antibody

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