



Antibody Specification Sheet

Anti-rat CD90.1 - Purified (Thy 1.1)

Catalog reference: AS74-P
Size: 0.5mg



Antibody Information:

Antigen: LEWIS rat thymocytes.

Ig Class: mIgG2a, Kappa.

Form: purified.

Specificity: rat Thy 1.1

Antibody Source: monoclonal antibody from hybridoma ER4.

Production: *in vitro* cell culture.

Purification: Protein A agarose chromatography.

Purity: ≥95%.

Formulation: provided as a 0.2 µm sterile-filtered solution in Ca⁺⁺ & Mg⁺⁺ free Dulbecco's PBS

Concentration: 1 mg/ml.

Recommendations: In vivo induction of Nephritis and proteinuria in rats.

Storage conditions: store undiluted at 4 °C or in aliquots at ≤ -20 °C.

Applications:

In Vivo Models: This antibody has been used at 400 micrograms per rat to induce glomerulonephritis and proteinuria.

General Information:

Injection of Wistar rats with 400 micrograms of purified monoclonal antibody induced glomerulonephritis and proteinuria. Following intravenous injection, glomerular binding of antibody was observed during the first 4 days along the glomerular basement membrane and in the mesangium. The glomerulonephritis lesion consist of microaneurysms and focal and segmental proliferation. Most glomeruli mesangial cells disappear in 4-6 days. Deposits of complement and fibrin were detected. Proteinuria was seen in most animals by 9 days. The nephrotoxic effect is mediated by direct binding of anti-Thy 1.1 and not by circulating immune complexes.

Reference: Bagchus, WM, Hoedemaeker, PJ, Rozing, J and Bakker, WW. Acute glomerulonephritis after intravenous injection of monoclonal anti-thymocyte antibodies in the rat. Immunol. Lett. 1986 12:109-13.

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