



Antibody Specification Sheet

Anti-Human Immunodeficiency Virus Reverse Transcriptase (HIV-RT) - Purified

Catalog reference: AS35-P

Size: 0.1 mg



Antibody Information:

Antigen: recombinant immuno-deficiency virus reverse transcriptase (HIV-RT).

Ig Class: mlgG1.

Form: purified.

Specificity: recognizes an epitope on HIV-RT that is different from the AS34-P epitope.

Antibody Source: monoclonal antibody from BALB/c-derived hybridomas.

Production: *in vitro* cell culture.

Purification: Protein A agarose chromatography.

Purity: ≥95%.

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

PBS with 0.05% sodium azide.

Concentration: 1 mg/ml.

Recommendations: ELISA (see also AS35-B) and immunoprecipitation.

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

Applications:

Elisa: The biotinylated form of this antibody (see AS35-B) has been used as solution phase antibody at 2 µg/ml in a two site ELISA with AS34-P. Typically the ELISA has a working range of 2-500 ng/ml and a sensitivity of <1 ng/ml of HIV-RT. Recommended sample volumes are 50-200 µl. (Kenney, JS, Masada, MP, and Allison AC, *Laboratory Methods in Immunology*, Vol. 1, 231, 1990).

Immunoprecipitation: This antibody has been used to immunoprecipitate > 90% HIV-RT in solution using a double-antibody method. (Midgley, AR and Hepburn, MR, *Methods Enzymol.*, 70, 266, 1980). Immunoprecipitation has also be accomplished using Protein G agarose.

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