

AM05229PU-N**Monoclonal Antibody to HIV reverse transcriptase (HIV-RT) - Purified****Quantity:** 0.1 mg**Concentration:** 1 mg/ml

Background: Anti-Human Immunodeficiency Virus Reverse Transcriptase is an antibody meant to target the Reverse Transcriptase (RT) efficiency in HIV infections. RT allows the viral RNA to be transcribed to host DNA and synthesize new DNA composed of the virus' genome. Because RT also exhibits RNaseH activity, it enables the production of a DNA/RNA hybrid used for synthesis. Additionally, it can cause errors during transcription, creating difficulties in isolating the virus and promoting further infection.

Host / Isotype: Mouse / IgG1**Recommended Isotype Controls:** AM03095PU-N**Clone:** AS34**Immunogen:** Recombinant Immuno-Deficiency Virus reverse transcriptase (HIV-RT).**Format:** **State:** Liquid (0.2µm sterile filtered) purified IgG fraction (>95% pure by SDS-PAGE).**Purification:** Protein A/G Chromatography.**Buffer System:** Dulbecco's PBS (without Ca²⁺ and Mg²⁺)**Preservatives:** 0.08% Sodium Azide

Applications: **ELISA:** This antibody has been used as a coating antibody at 10 µg/ml in a two site ELISA with *clone* AS35 (Cat.-No AM05230BT-N). Typically the ELISA has a working range of 2-500 ng/ml and a sensitivity of < 1 ng/ml HIV-RT. Recommended sample volumes are 50-200 µl.

Immunoaffinity Purification: This antibody, covalently coupled to protein A Agarose, has been used to Immunoaffinity purify HIV-RT.**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). Also accomplished using Protein G Agarose. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: This antibody recognizes an epitope on HIV-RT that is different from the recognized epitope of *clone* AS35 (Cat.-No AM05230BT-N).

Add. Information: **Antibody Source:** *In vitro* cell culture.

Storage: Store the antibody (in aliquots) at -20°C.
Avoid repeated freezing and thawing.
Shelf life: One year from despatch.