

Rabbit anti-ZEBOV VP35 Affinity Purified Polyclonal Antibody

Catalog #: 0301-040

Lot #: 1205001

Immunogen: Peptide sequence specific to Zaire Ebola virus (ZEBOV) VP35 protein.

Description: Affinity purified rabbit polyclonal antibody reactive to Zaire Ebola virus VP35. The antibody detects by Western blot recombinant VP35 protein expressed in 293T cells.

Supplied: 100 µg of affinity purified antibody is provided in PBS at a concentration of 0.91 mg/mL. 0.01% Sodium azide has been added.

Raised in: Rabbits

Purification: Antibody is affinity purified using immobilized immunogen.

Clonality: Polyclonal

Relevance: The antibody can be used for detection of ZEBOV VP35 protein.

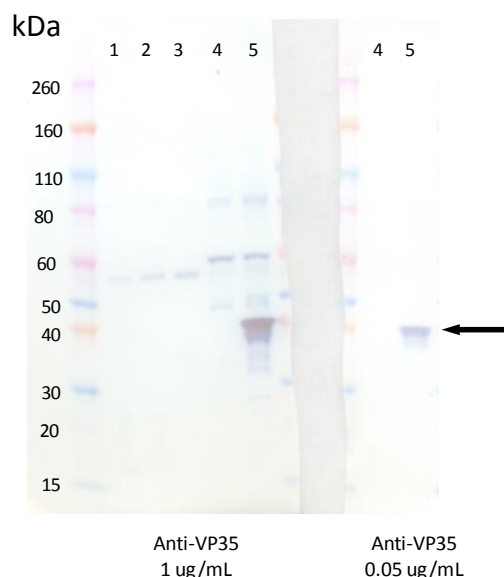
Storage: 2-3 weeks +4°C, -20°C long term. Avoid multiple freeze thaws.

Specificity Testing:

ELISA: Not Tested.

WB: Western blot detection was performed to determine the cross-reactivity of the antibody to virus like particles (VLPs) of Zaire and Sudan ebola virus (ZEBOV and SEBOV) and Marburg virus (MARV) expressing glycoprotein, nucleoprotein and VP40. Reactivity to recombinant VP35 was assessed using HEK293T cells transfected with a plasmid containing VP35 sequence. Control and transfected cell lysates were prepared in PBS and lysed with RIPA buffer plus protease inhibitors. Soluble protein was quantified and used for testing in Western analysis.

Western Blot Data



Western blot performed with ZEBOV, SEBOV and MARV VLPs at 2 µg (lanes 1, 2, 3, respectively) as well as 20 µg of 293T cell lysate control (lane 4) and 293T lysate transfected with rVP35 (lane 5). Blots were detected using anti-VP35 at 1 µg/mL and 50 ng/mL and visualized using an anti-rabbit HRP conjugate and chromogenic substrate (ZEBOV VP35 shown by arrow).

Specificity: Antibody strongly detects the recombinant VP35 at the expected size of 37 kDa in the transfected lysate (lanes 5), but not the control lysate (lanes 4). Cross-reactivity to the 293T lysate is observed with the antibody at 1 µg/mL but not at 0.05 µg/mL.

Cross Reactivity: Antibody weakly detects a band in 2 µg of ZEBOV, SEBOV and MARV VLPs between 50-60 kDa (lanes 1, 2, 3 respectively) that is not consistent with detection of Glycoprotein, VP40 or Nucleoprotein in ZEBOV, SEBOV, and MARV virus-like particles. The target of reactivity is unknown. The antibody at 1 µg/mL also detects minor bands of the 293T lysate that are not observed when detecting with the antibody at 0.05 µg/mL. Cross reactivity to VP35 of other filovirus species is unknown.

Intended for research use only, not for human, therapeutic, or diagnostic applications.