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Rabbit anti-ZEBOV L-Polymerase

Catalog #: 0301-045

Lot #: 1205002

Immunogen: Peptide sequence specific to Zaire Ebola virus (ZEBOV) L-Polymerase protein.

Description: Affinity purified rabbit polyclonal antibody reactive to Zaire Ebola virus L-Polymerase. The antibody detects L-Polymerase by Western blot in ZEBOV infected HeLa cells.

Supplied: 500 µg of affinity purified antibody is provided in PBS at a concentration of 0.93 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 L-Polymerase

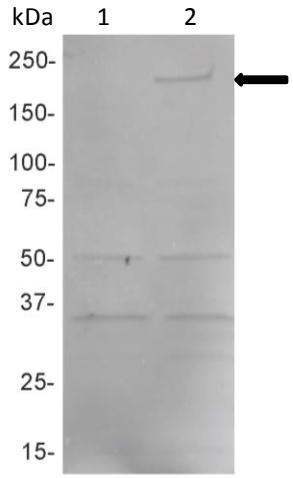
Storage: 2-3 weeks +4°C, -20◦C long term. Avoid multiple freeze thaws.

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 a ZEBOV (Mayinga) ebolavirus infected HeLa cells and uninfected HeLa cells were also evaluated by Western Blot. Cell lysates were prepared in PBS and lysed with RIPA buffer plus protease inhibitors.

Western Blot Data



Western blot performed with uninfected HeLa cells (Lane 1) and HeLa cells infected with ZEBOV (Mayinga) ebolavirus (Lane 2). Blots were detected using anti-L Polymerase at 1 µg/mL and visualized using an anti-rabbit HRP conjugate and chromogenic substrate (ZEBOV L polymerase is shown by arrow). Data kindly provided by Dr. Olena Shtanko in the lab of Dr. Robert Davey at the Texas Biomedical Research Institute.

Specificity: Antibody detects L-polymerase at the expected size of approximately 240 kDa in the HeLa infected lysate (Lane 2), but not the control uninfected lysate (Lanes 1).

Cross Reactivity: Western Blot analysis shows that the antibody very weakly detects a band in 2 µg of MARV VLPs between 30-40 kDa but not ZEBOV and SEBOV VLPs. Also, in addition to detection of the expected L-polymerase, the anti-L antibody detects two bands in the uninfected HeLa lysate between 35-52 kDa. The target of this reactivity is unknown. Reactivity of the antibody to L polymerase of other filovirus species is also unknown.

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