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Rabbit anti-SUDV GP Polyclonal Antibody

Catalog #: 0302-020

Lot #: 1201001

Immunogen: Purified recombinant Sudan Ebola virus (SUDV) Glycoprotein (GP), modified.

Description: Protein A purified rabbit polyclonal antibody reactive to SUDV GP. The antibody detects recombinant SUDV GP (modified) and GP expressed in virus-like particles (VLP) in Western blot and ELISA.

Supplied: 500 µg of antibody is supplied in PBS at a concentration of 1 mg/mL. 0.01% Sodium azide has been added.

Raised in: Rabbits

Purification: Antibody was purified using a Protein A column.

Clonality: Polyclonal

Relevance: The antibody can be used for detection of SUDV GP.

Recommended Dilutions:

ELISA: Assay-dependent dilution.

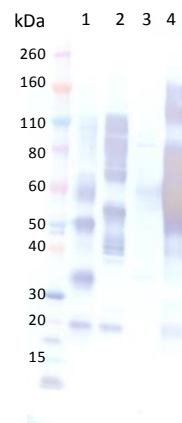
WB: Assay-dependent dilution; internal QC demonstrates strong detection of 0.2 µg of purified recombinant SUDV GP (modified) with a use dilution from 1 - 5 µg per mL of antibody in diluent using an HRP antibody conjugate and chromogenic substrate for visualization.

Storage: 2-3 weeks +4°C, -20°C long term

Cross Reactivity: Western blotting demonstrates significant cross reactivity to Zaire Ebola Virus (EBOV) GP expressed in virus-like particles. A very slight cross-reactivity to Marburg virus (MARV) may also be observed. Cross reactivity to the HA epitope tag of the immunogen may also be observed.

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Western Blot Data:



Western blots were detected with anti-SUDV GP (modified) at 1-5 µg/mL and visualized using an anti-rabbit HRP conjugate and chromogenic substrate. Denatured and reduced GP is visualized as multiple bands representing differing glycosylation patterns and GP subunits as observed above: 4 ug SUDV VLP (Lane 1), 4 ug EBOV VLP (2), 4 ug MARV VLP (3) and 0.2 ug rSUDV GP (modified)-HA tag expressed in mammalian cells (4).

ELISA Data:

	Avg OD650		
Amt Ab (ug/mL)	SUDV VLP	EBOV VLP	MARV VLP
20.000	1.89005	0.20340	0.11505
6.667	0.73500	0.11565	0.08420
2.222	0.27025	0.08545	0.07470
0.741	0.13745	0.07655	0.07785
0.247	0.10315	0.08055	0.08055
0.082	0.09500	0.08320	0.07840
0.027	0.11000	0.09225	0.09280
0.009	0.10845	0.09315	0.10940

VLPs were solubilized in a final concentration of 1% Triton X-100 and diluted to 10 µg/mL in PBS (0.01% Triton) for plate coating. Anti-SUDV GP polyclonal antibody was serially diluted 3-fold from 20 µg/mL and incubated on the VLP coated plates. Washed plates were detected with anti-rabbit HRP conjugate and TMB substrate. OD₆₅₀ is reported above.