

Rabbit GP Polyclonal Antibody | anti-GP antibody

GP Antibody; FITC conjugated

CATALOG # AAA230215	HOST Rabbit	REACTIVITY Zaire ebolavirus	APPLICATIONS ELISA
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PRODUCT SYNONYMS

GP; Polyclonal Antibody; GP Antibody; FITC conjugated; Envelope glycoprotein; GP1; 2; anti-GP antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Zaire ebolavirus
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	>95%,Protein G purified
Form/Format	Liquid
Sequence Length	676
Applicable Applications for anti-GP antibody	ELISA
Immunogen	Recombinant Zaire ebolavirus Envelope glycoprotein protein
Conjugation	FITC
Storage Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Preparation and Storage	Shipped at 4 degree C. Upon delivery, aliquot and store at -20 degree C or -80 degree C.

ADDITIONAL INFORMATION

Related Product Information for anti-GP antibody	GP1 is responsible for binding to the receptor(s) on target cells. Interacts with CD209/DC-SIGN and CLEC4M/DC-SIGNR which act as cofactors for virus entry into the host cell. Binding to CD209 and CLEC4M, which are respectively found on dendritic cells (DCs), and on endothelial cells of liver sinusoids and lymph node sinuses, facilitate infection of macrophages and endothelial cells. These interactions not only facilitate virus cell entry, but also allow capture of viral particles by DCs and subsequent transmission to susceptible cells without DCs infection (trans infection). Binding to the macrophage specific lectin CLEC10A also seems to enhance virus infectivity. Interaction with FOLR1/folate receptor alpha may be a cofactor for virus entry in some cell types, although results are contradictory. Members of the Tyro3 receptor tyrosine kinase family also seem to be cell entry factors in filovirus infection. Once attached, the virions are internalized through clathrin-dependent endocytosis and/or macropinocytosis. After internalization of the virus into the endosomes of the host cell, proteolysis of GP1 by two cysteine proteases, CTSB/cathepsin B and CTSL/cathepsin L presumably induces a conformational change of GP2, unmasking its fusion peptide and initiating membranes fusion.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	8479505
UniProt Accession #	P87671
Molecular Weight	74,478 Da

NCBI Official Full Name	Envelope glycoprotein
UniProt Protein Name	Envelope glycoprotein
UniProt Gene Name	GP
UniProt Synonym Gene Names	GP
UniProt Entry Name	VGP_EBOEC

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/gp-antibody-elisa/230215>