

Mouse Ebola GP II Monoclonal Antibody | anti-GP antibody

Monoclonal Antibody to Ebola GP II (Clone: ABM4C78)

CATALOG # AAA14870	HOST Mouse	APPLICATIONS Western Blot
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PRODUCT SYNONYMS

Ebola GP II; Monoclonal Antibody; Monoclonal Antibody to Ebola GP II (Clone: ABM4C78); GP; GP1; 2; Antibody to Ebola GP II; Anti-Ebola GP II Antibody; Ebola GP II Antibody; anti-GP antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Clonality	Monoclonal
Isotype	Mouse IgG2a Lambda
Clone Number	ABM4C78
Purity/Purification	Protein G Chromatography
Form/Format	Purified 25 ug in 50 ul/100 ug in 200 ul PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic
Applicable Applications for anti-GP antibody	WB (Western Blot)
Application Notes	WB: 0.5-1 ug/ml
Immunogen Information	A partial length recombinant GP II protein (N terminus 155aa) of Sudan Ebola virus was used as an immunogen for this antibody.
Preparation and Storage	Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid repeated freeze and thaw cycles.

IMAGES



WB (Western Blot)

Fig-1: Western blot analysis of Ebola GP II. Anti-Ebola GP II antibody (Clone: ABM4C78) was tested at 0.1 ug/ml partial length recombinant protein.

ADDITIONAL INFORMATION

Related Product Information for anti-GP antibody	The Sudan ebola virus (SUDV) glycoprotein (GP) is an envelope glycoprotein that is present on the virion surface and is involved in receptor binding and mediating viral entry. It is composed of a trimer of heterodimers (GP1/GP2), where GP1 and GP2 remain covalently linked by a disulfide bond9, and the resulting GP1-GP2 pair trimerizes to form a ~450 kDa envelope spike on the viral surface. GP is synthesized as a single polypeptide of 676 amino acids in length that is post-translationally cleaved by furin to yield two subunits, GP1 and GP2. The GP2 subunit mediates virus-cell membrane fusion and viral entry. Structural analysis of the core domain of Ebola virus GP2 indicates that the fusion-active conformation of GP2 is similar to that of the other class I membrane fusion proteins, suggesting a common membrane fusion mechanism. In the endosome, GP2 releases from GP1 and undergoes irreversible conformational changes that drive fusion with host endosomal membranes. GP2 contains an N-terminal peptide, a hairpin-forming fusion loop, and two heptad repeats connected by a functionally important linker. The first heptad repeat of GP2 is wound around the base of GP1 in a metastable, prefusion-specific conformation.
Product Categories/Family for anti-GP antibody	Antibodies; Infectious Diseases

NCBI AND UNIPROT INFORMATION

NCBI GI #	75559166
NCBI GeneID	3160774
UniProt Accession #	Q7T9D9
NCBI Official Full Name	Envelope glycoprotein
NCBI Official Symbol	GP
NCBI Protein Information	spike glycoprotein; small secreted glycoprotein; second secreted glycoprotein
UniProt Protein Name	Envelope glycoprotein
UniProt Gene Name	GP
UniProt Synonym Gene Names	GP

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://stage.aaabiotech.com/monoclonal/ebola-gp-ii-antibody-clone-abm4c78-western-blot-elisa/14870>