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Anti-EBOV Reference Antibody (Atoltivimab)

Recombinant Antibody
Catalog # APR10366

Product Information

Application	Functional assay, Kinetics (SPR), Kinetics (BLI), FACS, E, FTA
Primary Accession	Q05320
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	74464

Additional Information

Target/Specificity	EBOV
Endotoxin Conjugation	Unconjugated
Expression system	CHO
Format	Purified monoclonal antibody supplied in PBS, pH6.0, without preservative.This antibody is purified through a protein A column.

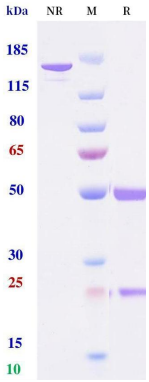
Protein Information

Name	GP
Function	[Envelope glycoprotein]: Trimeric GP1,2 complexes form the virion surface spikes and mediate the viral entry processes, with GP1 acting as the receptor-binding subunit and GP2 as the membrane fusion subunit. At later times of infection, down-regulates the expression of various host cell surface molecules that are essential for immune surveillance and cell adhesion (PubMed:11836430). Down-modulates several integrins including ITGA1, ITGA2, ITGA3, ITGA4, ITGA5, ITGA6, ITGAV and ITGB1 (PubMed:11112476). This decrease in cell adhesion molecules may lead to cell detachment, contributing to the disruption of blood vessel integrity and hemorrhages developed during infection (cytotoxicity) (Probable). Interacts with host TLR4 and thereby stimulates the differentiation and activation of monocytes leading to bystander death of T-lymphocytes (PubMed:28542576). Down-regulates as well the function of host natural killer cells (PubMed:30013549). Counteracts the antiviral effect of host BST2/tetherin that restricts release of progeny virions from infected cells (PubMed:26516900, PubMed:27707924, PubMed:29669839). However, cooperates with VP40 and host BST2 to activate canonical NF-kappa-B pathway in a manner dependent on neddylation (PubMed:28878074).

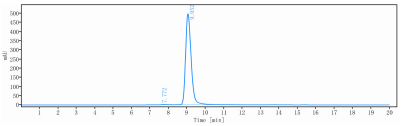
Cellular Location

[GP2]: Virion membrane; Single-pass type I membrane protein. Host cell membrane; Single-pass type I membrane protein. Note=In the cell, localizes to the plasma membrane lipid rafts, which probably represent the assembly and budding site. [Shed GP]: Secreted. Note=GP2- delta bound to GP1 (GP1,2-delta) is produced by proteolytic cleavage of GP1,2 by host ADAM17 and shed by the virus

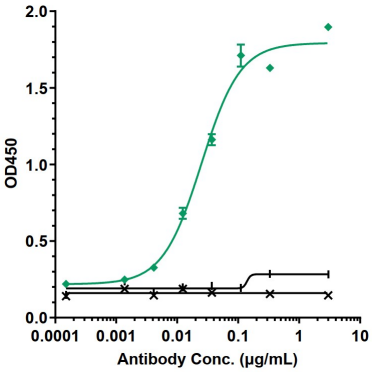
Images



Anti-EBOV Reference Antibody (Atoltivimab) on SDS-PAGE under reducing (R) condition. The purity of the protein is greater than 95%.



The purity of Anti-EBOV Reference Antibody (Atoltivimab) is 99.4%, determined by SEC-HPLC.



Immobilized Recombinant EBOV(subtype Zaire)GP Protein(His Tag) at 2 μg/mL can bind Atoltivimab, EC50= 0.025 μg/mL.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.