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Datasheet for ABIN7383898  
**anti-SEBOV GP antibody**

### Overview

Quantity:	50 µL
Target:	SEBOV GP
Reactivity:	Sudan ebolavirus
Host:	Rabbit
Clonality:	Monoclonal
Conjugate:	This SEBOV GP antibody is un-conjugated
Application:	ELISA, Western Blotting (WB)

### Product Details

Immunogen:	Recombinant EBOV (Subtype Sudan, strain Gulu) Glycoprotein / GP1 (mucin domain deleted) Protein (His Tag), ABIN7198917
Clone:	106
Isotype:	IgG
Specificity:	Anti-Ebola virus EBOV(Subtype Sudan, strain Gulu) Glycoprotein/GP1(mucin domain deleted) Monoclonal Antibody
Purification:	Protein A Affinity

### Target Details

Target:	SEBOV GP
Alternative Name:	SEBOV Glycoprotein/GP1 ( <a href="#">SEBOV GP Products</a> )

## Target Details

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**Background:** Glycoprotein,GP,The fourth gene of the EBOV genome encodes a 16- kDa envelope-attached glycoprotein (GP) and a 11 kDa secreted glycoprotein (sGP). Both GP and sGP have an identical 295-residue N-terminus, however, they have different C-terminal sequences. Recently, great attention has been paid to GP for vaccines design and entry inhibitors isolation. GP is a class I fusion protein which assembles as trimers on viral surface and plays an important role in virus entry and attachment. Mature GP is a disulfide-linked heterodimer formed by two subunits, GP1 and GP2, which are generated from the proteolytical process of GP precursor (pre-GP) by cellular furin during virus assembly . The GP1 subunit contains a mucin domain and a receptor-binding domain (RBD), the GP2 subunit has a fusion peptide, a helical heptad-repeat (HR) region, a transmembrane (TM) domain, and a 4-residue cytoplasmic tail. The RBD of GP1 mediates the interaction of EBOV with cellular receptor (e.g. DC-SIGN/LSIGN, TIM-1, hMGL, NPC1,  $\beta$ -integrins, folate receptor- $\alpha$ , and Tyro3 family receptors), of which TIM1 and NPC1 are essential for EBOV entry, the mucin domain having N- and O-linked glycans enhances the viral attachment to cellular hMGL, and participates in shielding key neutralization epitopes, which helps the virus evades immune elimination. There are large conformation changes of GP2 during membrane fusion, which enhance the insertion of fusion loop into cellular membrane and facilitate the release of viral nucleocapsid core to cytoplasm.

## Application Details

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**Application Notes:** WB 1:1000-1:5000 ELISA 1:5000-1:10000

**Restrictions:** For Research Use only

## Handling

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**Concentration:** 1 mg/mL

**Buffer:** 0.2  $\mu$ m filtered solution in PBS

**Storage:** -20 °C

**Storage Comment:** Store at -20°C. Avoid freeze / thaw cycles.