



## MAV105 Recombinant Human anti-COVID-19/SARS-CoV-2 S1 NTD Protein Monoclonal Antibody DATA SHEET

<b>Catalog Number</b>	MAV105
<b>Product Name</b>	Recombinant Human anti-COVID-19/SARS-CoV-2 S1 NTD Protein Monoclonal Antibody
<b>Clonity</b>	Recombinant mAb
<b>Alias</b>	SARS-CoV-2 S1 NTD domain protein antibody, 2019-nCoV, Coronavirus
<b>Size</b>	100ul,500ul,1ml
<b>Concentration</b>	1mg/ml
<b>Clone Number</b>	2D5
<b>Isotype</b>	IgG1
<b>Species</b>	COVID-19
<b>Host</b>	Human
<b>Applications</b>	ELISA
<b>Endotoxin</b>	<0.1EU/ug determined by LAL method.
<b>Biological Activity</b>	IC50 = 96 ng/mL using using ELISA method
<b>Buffer</b>	0.01M PBS, pH 7.4
<b>Cross-Reactivity</b>	React with SARS-CoV-2(COVID-19) S1-NTD protein. Do not react with other SARS-CoV-2 subunits.
<b>Background</b>	<p>The spike (S) glycoprotein of coronaviruses contains protrusions that will only bind to certain receptors on the host cell: they are essential for both host specificity and viral infectivity. The term 'peplomer' is typically used to refer to a grouping of heterologous proteins on the virus surface that function together. The spike (S) glycoprotein of coronaviruses is known to be essential in the binding of the virus to the host cell at the advent of the infection process. Most notable is severe acute respiratory syndrome (SARS). The severe acute respiratory syndrome-coronavirus (SARS-CoV) spike (S) glycoprotein alone can mediate the membrane fusion required for virus entry and cell fusion. It is also a major immunogen and a target for entry inhibitors. The SARS-CoV spike (S) protein is composed of two subunits; the S1 subunit contains a receptor-binding domain that engages with the host cell receptor angiotensin-converting enzyme 2 and the S2 subunit mediates fusion between the viral and host cell membranes. The S protein plays key parts in the induction of neutralizing-antibody and T-cell responses, as well as protective immunity, during infection with SARS-CoV.</p>
<b>Storage</b>	This product can be stored at 2°C-8°C for one month. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -80°C. Avoid repeated freeze-thaw cycles.
<b>Shipping Condition</b>	Shipped on ice packs.
<b>Note</b>	This product is used for research use only. Not for human or diagnostic use.

**For Research Use Only!**