



# SARS Spike Protein [Fc] (DAG-H10344)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Product Overview</b>	A DNA sequence encoding the receptor binding domain (RBD) of human SARS coronavirus (isolate:WH20) spike (AAX16192.1) (Arg306-Phe527) was expressed with the Fc region of rabbit IgG at the C-terminus.
<b>Species</b>	SARS
<b>Purity</b>	(36.8+ 56.0) % as determined by SDS-PAGE
<b>Conjugate</b>	Fc
<b>Applications</b>	Western Blotting standard, antibody ELISA, immunogen, etc
<b>Predicted N terminal</b>	Arg 306
<b>Molecular Weight</b>	The recombinant receptor binding domain (RBD) of human SARS coronavirus (isolate:WH20) spike comprises 446 amino acids and has a predicted molecular mass of 50.2 kDa. The apparent molecular mass of the protein is approximately 78.9 and 54.3 kDa in SDS-PAGE under reducing conditions.
<b>Stability</b>	Samples are stable for up to twelve months from date of receipt at -70 °C
<b>Endotoxin</b>	< 1 .0 EU per µg of the protein as determined by the LAL method
<b>Format</b>	Lyophilized
<b>Concentration</b>	Specific concentrations are included in the hardcopy of COA.
<b>Size</b>	50 µg, 100 µg
<b>Buffer</b>	Lyophilized from sterile 100 mM Glycine, 10 mM NaCl, pH 8.0.
<b>Preservative</b>	None

**Storage**

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

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## BACKGROUND

**Introduction**

SARS Coronavirus is an enveloped virus containing three outer structural proteins, namely the membrane (M), envelope (E), and spike (S) proteins. Spike (S)-glycoprotein of the virus interacts with a cellular receptor and mediates membrane fusion to allow viral entry into susceptible target cells. Accordingly, S-protein plays an important role in virus infection cycle and is the primary target of neutralizing antibodies. The E.Coli derived 38 kDa mosaic protein contains the N-terminal section of the Spike protein.

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