

# Product Datasheet

## SARS-CoV-2 Spike Antibody (9F7E4) - Alpha Variant, B.1.1.7, UK - BSA Free NBP3-11941

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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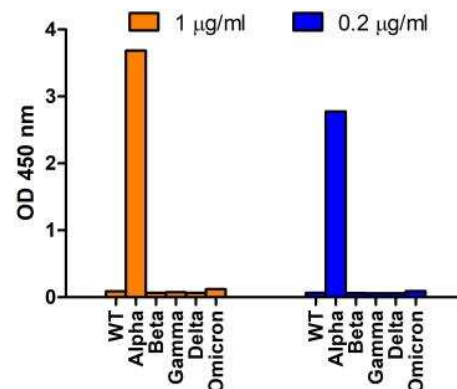
**NBP3-11941**

SARS-CoV-2 Spike Antibody (9F7E4) - Alpha Variant, B.1.1.7, UK - BSA Free

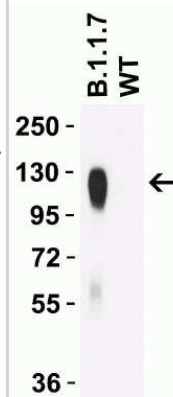
<b>Product Information</b>	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	1 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	9F7E4
<b>Preservative</b>	0.02% Sodium Azide
<b>Isotype</b>	IgG2a Kappa
<b>Purity</b>	Protein A purified
<b>Buffer</b>	PBS
<b>Product Description</b>	
<b>Host</b>	Mouse
<b>Gene ID</b>	43740568
<b>Gene Symbol</b>	S
<b>Species</b>	SARS-CoV-2
<b>Specificity/Sensitivity</b>	May cross-react with several virus of interest (VOI) variant lineages that contains P681H mutation, including B.11.318, B.1.621, B.1.621.1, P.3. But all of these lineages are rarely present in current pandemic.
<b>Immunogen</b>	Antibody was raised against a peptide corresponding to 12 amino acids near the center of SARS-CoV-2 Alpha variant (B.1.1.7) Spike protein. The immunogen is located within 650-700 amino acids of SARS-CoV-2 Alpha Variant (B.1.1.7, UK) Spike protein.
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, ELISA
<b>Recommended Dilutions</b>	Western Blot 1 ug/ml, ELISA
<b>Application Notes</b>	Antibody can specifically detect SARS-CoV-2 Alpha Variant (B.1.1.7, UK) S1 protein, but not SARS-CoV-2 WT Spike S1 protein by ELISA and WB. It can also detect mutant peptide, but not WT peptide.

## Images

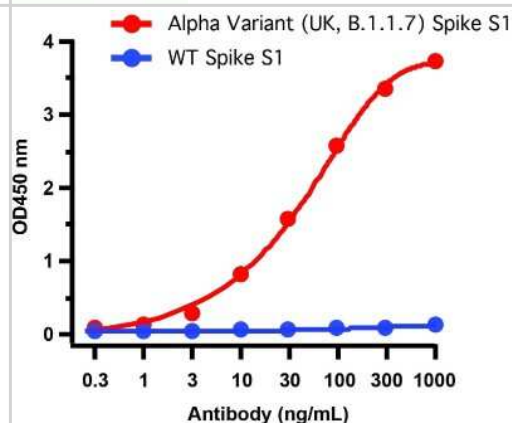
ELISA: SARS-CoV-2 Spike Antibody (9F7E4) - Alpha Variant, B.1.1.7, UK [NBP3-11941] - Validation of Alpha Variant Spike Antibodies with Spike S1 Protein of SARS-CoV-2 Variants. Coating Antigen: SARS-CoV-2 spike S1 proteins WT, alpha variant (B.1.1.7), beta variant (B.1.351), gamma variant (P.1), delta variant (B.1.617.2), and omicron variant (B.1.1.529), 1 ug/mL, incubate at 4C overnight. Detection Antibody: SARS-CoV-2 Spike antibody Alpha Variant (B.1.1.7) UK NBP3-11941, dilution: 200-1000 ng/mL, incubate at RT for 1 hr. Secondary Antibody: Goat anti-mouse HRP at 1:5,000, incubate at RT for 1 hr. NBP3-11941 can specifically detect alpha variant spike S1 protein, but not spike S1 protein of WT and other tested variants.



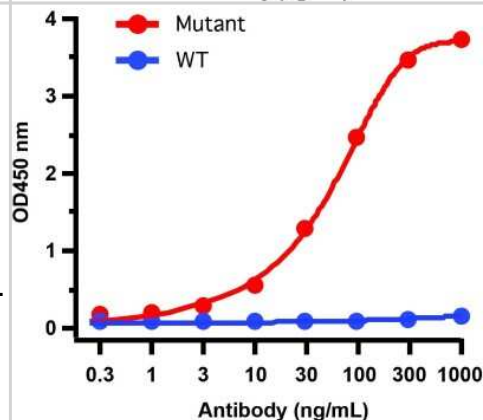
Western Blot: SARS-CoV-2 Spike Antibody (9F7E4) - Alpha Variant, B.1.1.7, UK [NBP3-11941] - WB Validation of Alpha Variant Spike Antibodies with SARS-CoV-2 Alpha Variant Spike S1 Protein Loading: 50 ng of SARS-CoV-2 spike S1 proteins, including WT and alpha variant (B.1.1.7, UK). Detection Antibodies: SARS-CoV-2 Spike antibody, NBP3-11941, 1 ug/mL, incubate at RT for 1 hr. Secondary Antibodies: Goat anti-mouse HRP at 1:5,000, incubate at RT for 1 hr. SARS-CoV-2 Spike antibody (NBP3-11941) can specifically detect alpha variant spike S1 protein, but not WT spike S1 protein by WB.



ELISA: SARS-CoV-2 Spike Antibody (9F7E4) - Alpha Variant, B.1.1.7, UK [NBP3-11941] - ELISA Validation of Alpha Variant Spike Antibodies with SARS-CoV-2 Alpha Variant Spike S1 Protein. Coating Antigen: SARS-CoV-2 spike S1 proteins, including WT and alpha variant (B.1.1.7, UK), 1 ug/mL, incubate at 4C overnight. Detection Antibodies: SARS-CoV-2 Spike antibody, NBP3-11941, dilution: 0.3-1000 ng/mL, incubate at RT for 1 hr. Secondary Antibodies: Goat anti-mouse HRP at 1:5,000, incubate at RT for 1 hr. SARS-CoV-2 Spike antibody (NBP3-11941) can specifically detect alpha variant spike S1 protein, but not WT spike S1 protein by ELISA.



ELISA: SARS-CoV-2 Spike Antibody (9F7E4) - Alpha Variant, B.1.1.7, UK [NBP3-11941] - ELISA Validation of Alpha Variant Spike Antibodies with Mutant and WT Peptide. Coating Antigen: SARS-CoV-2 spike S1 peptides, including WT and alpha variant (B.1.1.7, UK), 1 ug/mL, incubate at 4C overnight. Detection Antibodies: SARS-CoV-2 Spike antibody, NBP3-11941, dilution: 0.1-1000 ng/mL, incubate at RT for 1 hr. Secondary Antibodies: Goat anti-mouse HRP at 1:5,000, incubate at RT for 1 hr. SARS-CoV-2 Spike antibody (NBP3-11941) can specifically detect alpha variant spike S1 peptide (681H), but not WT peptide (681P).





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### Products Related to NBP3-11941

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-96981-0.5mg	Mouse IgG2a Kappa Isotype Control (M2AK)
NBP3-14666-100ug	SARS-CoV-2 Spike Recombinant Protein

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### Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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