

# Product Datasheet

## **SARS-CoV-2 Spike Antibody (7C11H11) - Alpha Variant, B.1.1.7, UK - BSA Free NBP3-11942**

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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**NBP3-11942**

SARS-CoV-2 Spike Antibody (7C11H11) - Alpha Variant, B.1.1.7, UK - BSA Free

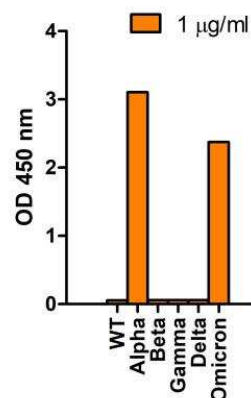
Product Information	
Unit Size	0.1 mg
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	7C11H11
Preservative	0.02% Sodium Azide
Isotype	IgG2b Kappa
Purity	Peptide affinity purified
Buffer	PBS

Product Description	
Description	Novus Biologicals Mouse SARS-CoV-2 Spike Antibody (7C11H11) - Alpha Variant, B.1.1.7, UK - BSA Free (NBP3-11942) is a monoclonal antibody validated for use in WB and ELISA. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	43740568
Gene Symbol	S
Species	SARS-CoV-2
Specificity/Sensitivity	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.
Immunogen	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.

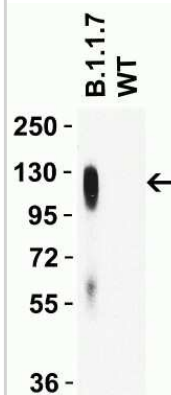
Product Application Details	
Applications	Western Blot, ELISA
Recommended Dilutions	Western Blot 1 ug/ml, ELISA
Application Notes	Antibody can specifically detect SARS-CoV-2 Alpha Variant (B.1.1.7, UK) S1 protein, but not SARS-CoV-2 WT Spike S1 protein by ELISA and WB. It can also detect mutant peptide, but not WT peptide.

## Images

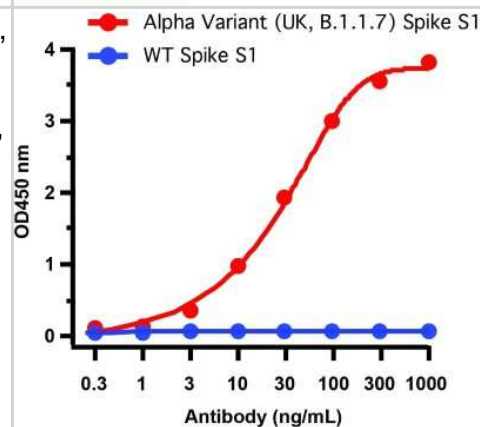
ELISA: SARS-CoV-2 Spike Antibody (7C11H11) - Alpha Variant, B.1.1.7, UK [NBP3-11942] - Validation of Alpha Variant Spike Antibody with Spike S1 Protein of SARS-CoV-2 Variants. Coating Antigen: SARS-CoV-2 spike S1 proteins WT, alpha variant (B.1.1.7), beta variant (B.1.351), gamma variant (P.1), delta 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 NBP3-11942, dilution: 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. NBP3-11942 can specifically detect omicron and alpha variant spike S1 protein, but not spike S1 protein of WT and other tested variants.



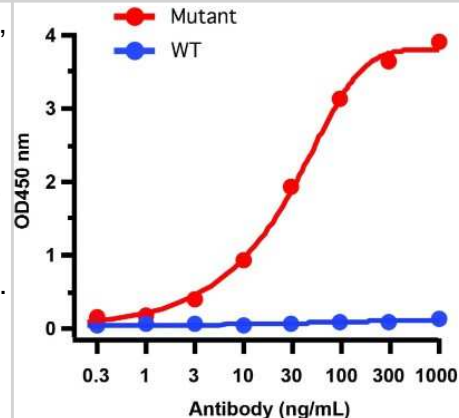
Western Blot: SARS-CoV-2 Spike Antibody (7C11H11) - Alpha Variant, B.1.1.7, UK [NBP3-11942] - WB Validation of Alpha Variant Spike Antibodies with SARS-CoV-2 Alpha Variant Spike S1 Protein Loading: 50 ng of SARS-CoV-2 spike S1 proteins, including WT and alpha variant (B.1.1.7, UK). Detection Antibodies: SARS-CoV-2 Spike antibody, NBP3-11942, 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 (NBP3-11942) can specifically detect alpha variant spike S1 protein, but not WT spike S1 protein by WB.



ELISA: SARS-CoV-2 Spike Antibody (7C11H11) - Alpha Variant, B.1.1.7, UK [NBP3-11942] - 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, NBP3-11942, 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 (NBP3-11942) can specifically detect alpha variant spike S1 protein, but not WT spike S1 protein by ELISA.



ELISA: SARS-CoV-2 Spike Antibody (7C11H11) - Alpha Variant, B.1.1.7, UK [NBP3-11942] - 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, NBP3-11942, 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 (NBP3-11942) can specifically detect alpha variant spike S1 peptide (681H), but not WT peptide (681P).





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### **Products Related to NBP3-11942**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-43317-0.5mg	Mouse IgG2b Kappa Light Chain Isotype Control (MG2b)

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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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