# Product Datasheet

## SARS-CoV-2 Spike Antibody (CR3022) [Alexa Fluor® 647]
## NBP2-90980AF647

Unit Size: 0.1 ml

Store at 4C in the dark.

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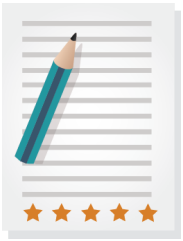

# NBP2-90980AF647

SARS-CoV-2 Spike Antibody (CR3022) [Alexa Fluor® 647]

| Product Information | |
|---|---|
| **Unit Size** | 0.1 ml |
| **Concentration** | Please see the vial label for concentration. If unlisted please contact technical services. |
| **Storage** | Store at 4C in the dark. |
| **Clonality** | Monoclonal |
| **Clone** | CR3022 |
| **Preservative** | 0.05% Sodium Azide |
| **Isotype** | IgG1 Kappa |
| **Conjugate** | Alexa Fluor 647 |
| **Purity** | Protein A purified |
| **Buffer** | 50mM Sodium Borate |

| Product Description | |
|---|---|
| **Host** | Human |
| **Gene ID** | 43740568 |
| **Gene Symbol** | S |
| **Species** | SARS-CoV-2, SARS-CoV |
| **Reactivity Notes** | SARS-CoV, SARS-CoV-2 |
| **Specificity/Sensitivity** | This antibody binds to both SARS-CoV and SARS-CoV-2 with high affinity (PMID: 16796401 & 32065055). It binds the amino acids 318-510 in the S1 domain of the SARS-CoV Spike protein as well as SARS-CoV-2 (COVID-19) Spike protein. The antibody also binds to P462L-substituted S318-510 fragments of the SARS spike protein. The binding epitope is only accessible in the "open" confromation of the spike protein (Joyce et al. 2020). |
| **Immunogen** | The original monoclonal antibody was generated through an scFv library derived from a peripheral blood lymphocytes of a patient exposed to the SARS-CoV. |
| **Notes** | Alexa Fluor (R) products are provided under an intellectual property license from Life Technologies Corporation. The purchase of this product conveys to the buyer the non-transferable right to use the purchased product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components, or any materials made using the product or its components, in any activity to generate revenue, which may include, but is not limited to use of the product or its components: (i) in manufacturing; (ii) to provide a service, information, or data in return for payment; (iii) for therapeutic, diagnostic or prophylactic purposes; or (iv) for resale, regardless of whether they are resold for use in research. For information on purchasing a license to this product for purposes other than as described above, contact Life Technologies Corporation, 5791 Van Allen Way, Carlsbad, CA 92008 USA or outlicensing@lifetech.com. This conjugate is made on demand. Actual recovery may vary from the stated volume of this product. The volume will be greater than or equal to the unit size stated on the datasheet. |

| Product Application Details | |
|---|---|
| **Applications** | ELISA, Immunocytochemistry/Immunofluorescence, Neutralization, Surface Plasmon Resonance |
| **Recommended Dilutions** | ELISA, Immunocytochemistry/Immunofluorescence, Surface Plasmon Resonance, Neutralization |
| **Application Notes** | Optimal dilution of this antibody should be experimentally determined. |

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## Products Related to NBP2-90980AF647

| | |
|---|---|
| NBP3-06872AF647 | Human IgG1 Kappa Isotype Control [Alexa Fluor® 647] |
| NBP3-14666-100ug | SARS-CoV-2 Spike Recombinant Protein |
| 10549-CV-100 | SARS-CoV-2 Spike [Unconjugated] |

### 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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