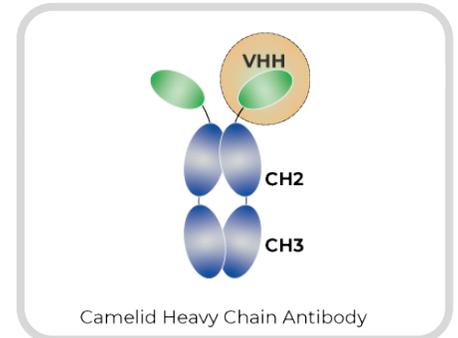




# Single Domain Antibodies

The Single Domain Antibody (sdAb) from camelids, also known as VHH antibodies, provides cutting-edge technology for antibody research. The sdAb lacks light chains and is smaller and more stable than conventional antibodies yet possesses fully functional antigen-binding capability. Due to its size (a mere 15 kDa), a single domain antibody is adept at reaching otherwise inaccessible epitopes.

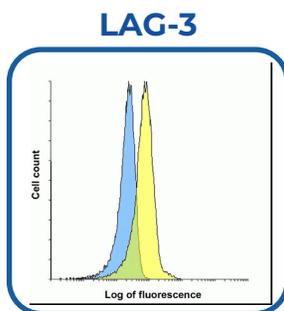


## Features and Benefits

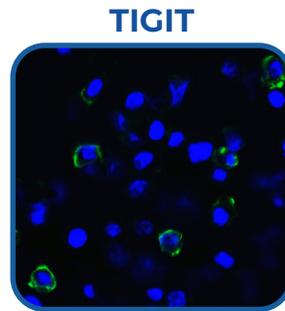
- Smallest functional antibody unit at ~15 kDa
- Unique binding capacity to conformational epitopes and active sites
- Unique physical properties can lead to increased stability under extreme temperature and pH, as well as increased solubility
- Recombinantly produced for lot-to-lot reproducibility
- Adaptable through antibody engineering

## Immune Checkpoint

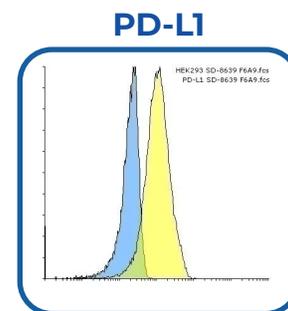
Immune Checkpoint proteins act as T cell receptor (TCR) co-signaling partners that deliver either positive or negative signals to T lymphocytes. Under normal conditions, these proteins are critical for self-tolerance, but in tumors, these immune checkpoint proteins can allow the tumor to evade the anti-tumor immune response. Blocking the actions of these proteins can produce a potent anti-tumor response. This new approach to cancer treatment is referred to as cancer immunotherapy or immuno-oncology.



**Cat. No. SD8837**



**Cat. No. SD8828**



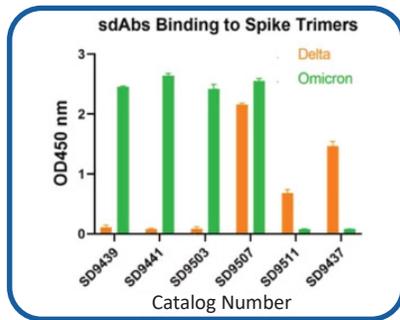
**Cat. No. SD8639**

**Browse Additional ProSci Immune Checkpoint sdAbs**



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## SARS-CoV-2 Spike S1

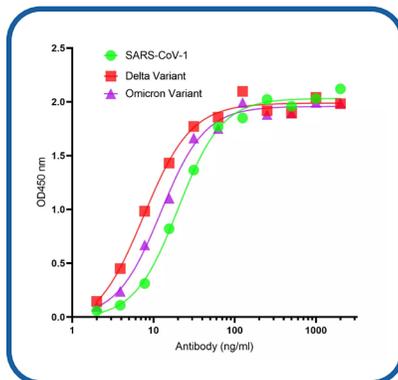


ProSci single domain antibodies against SARS-CoV-2 Spike S1 show binding towards the latest **Delta** and/or **Omicron Variants of Concern**.

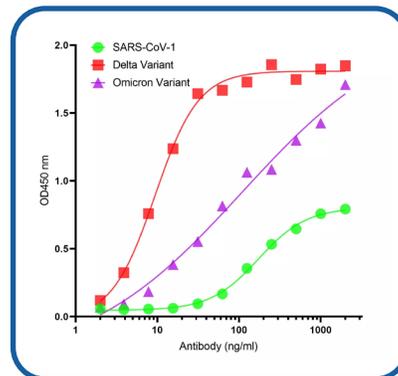
## SARS-CoV-2 Spike S2

[Cat. No. SD9789](#) against the Spike glycoprotein S2 domain shows broad cross-reactivity with SARS-CoV-1 and SARS-CoV-2 delta, and omicron variants while [Cat. No. SD9787](#) shows a more preferential binding to delta than Omicron and SARS-CoV-1:

Cross-reactivity of SD9789 against the Spike glycoprotein of different types



Cross-reactivity of SD9787 against the Spike glycoprotein of different types



## High Performance Antibodies...and More

With over 20 years of developing antibodies and over 20,000 custom antibodies developed, ProSci delivers customizable services tailored to your needs.

Interested in single domain antibodies against your target of interest? Contact the experts at ProSci to discuss developing a custom single domain antibody.

Explore ProSci Single Domain Antibody Development Services



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