

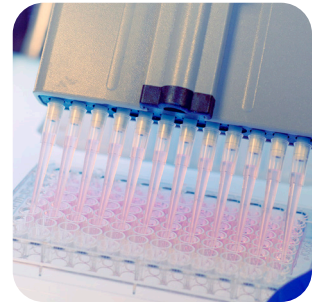
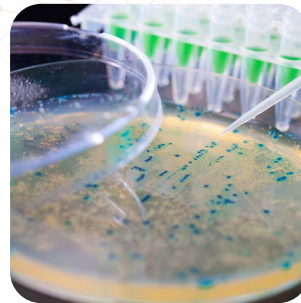


Single Domain Antibodies



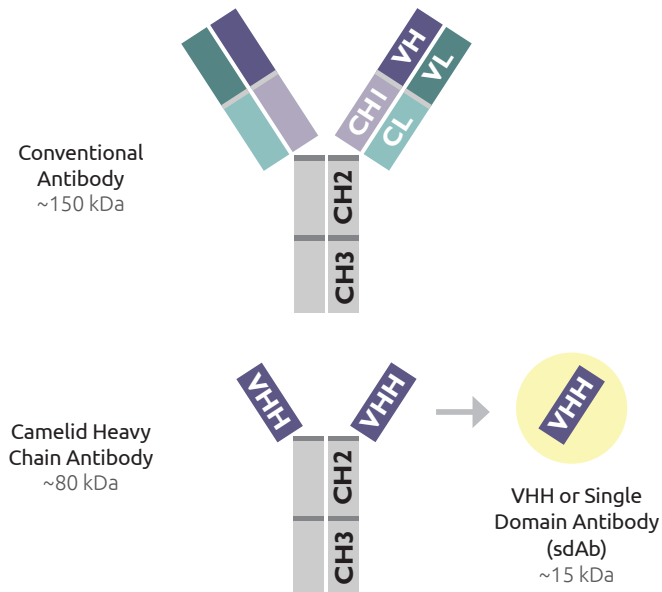
HIGH PERFORMANCE ANTIBODIES ... AND MORE

Broad Antibody Catalog
Extensive Antibody Services



SINGLE DOMAIN ANTIBODY SERVICES

The **Single Domain Antibody (sdAb)** from camelid, also known as VHH antibodies, provides cutting-edge technology for antibody research. sdAbs lack light chains and are smaller and more stable than conventional antibodies, yet they possess 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 & Benefits of sdAbs

- Smallest functional antibody unit at ~15 kDa
- Enhanced tissue penetration
- High affinity and specificity
- Unique binding capacity to small cavities or clefts
- Able to cross blood-brain barrier
- Highly stable under extreme temperature and pH



SINGLE DOMAIN DEVELOPMENT

prosci-services.com/recombinant-antibody-services/

SINGLE DOMAIN ANTIBODY DEVELOPMENT PROCESS

ProSci has optimized phage display technologies for the development of **sdAbs**. By developing unique immunization protocols, phage vectors and novel panning methodologies, ProSci continues its unwavering commitment to be the best at custom antibody development.

● Phase I: Immunization

- 1 Llama or alpaca
- 1 Pre-immune serum collection
- 4 Immunizations
- 3 Test serum collections
- ELISAs on each bleed

● Phase II: PBMC Isolation

- PBMC isolation from week 8 and 12 bleeds

● Phase III: cDNA Library Construction

- sdAb library construction

● Phase IV: Library Panning and Screening

- 2 rounds of panning
ELISA screening

● Phase V: Single Domain Clone Selection, Sequencing & Production

- Selection and sequencing of binders
- Small-scale antibody production





prosci-inc.com



CORPORATE HEADQUARTERS

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