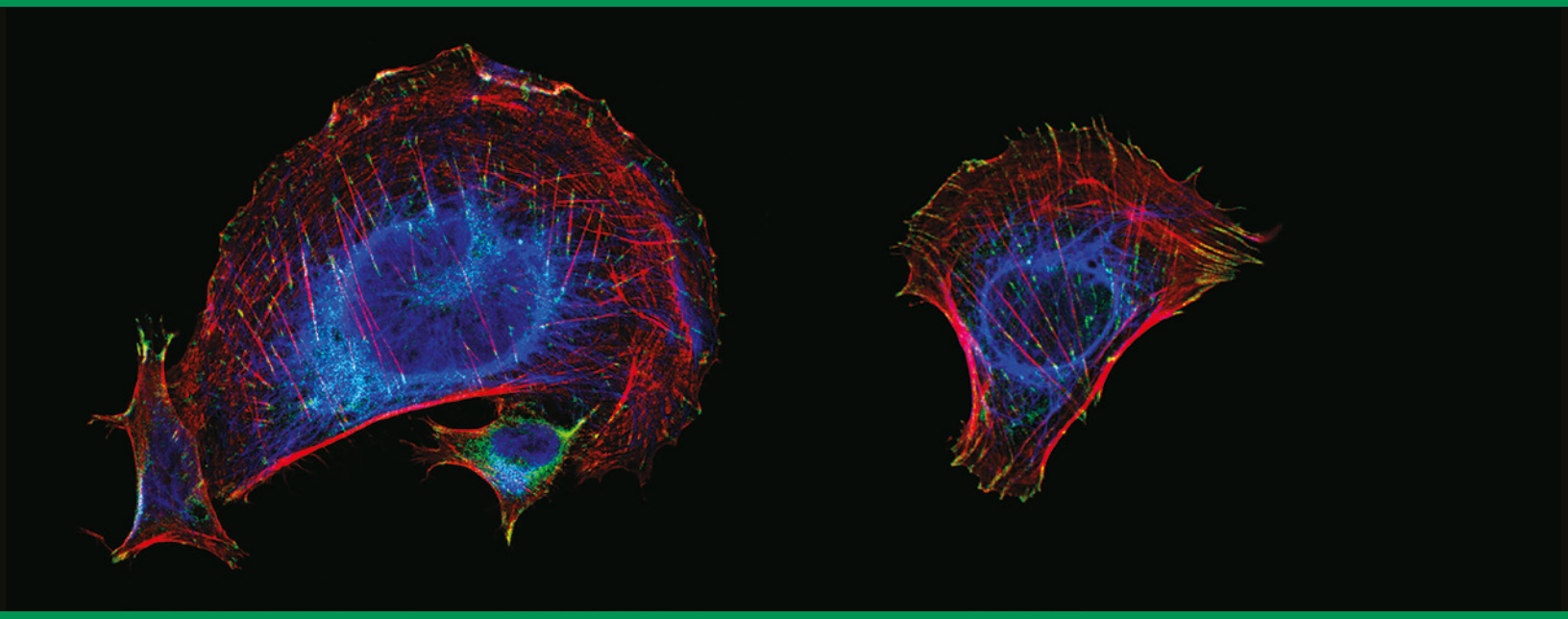
Jackson ImmunoResearch LABORATORIES INC.

AMPLIFY THE DETAIL

AffiniPure-VHH®
Secondary Antibodies



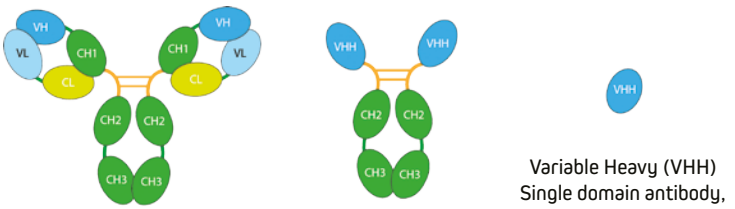
Polyclonal VHH Fragment Antibodies

from Jackson ImmunoResearch

Small size
Reduced linkage error and better penetration

High specificity and low background
Cross-adsorbed against commonly used species

Unique polyclonal format
Signal amplification for high sensitivity



Canonical IgG1
160 kDa

Camelid IgG2, 3
70-90 kDa

Variable Heavy (VHH)
Single domain antibody,
or Nanobody
12-15 kDa

Comparison of conventional IgG with VHH alongside canonical Immunoglobulins.

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AffiniPure-VHH®

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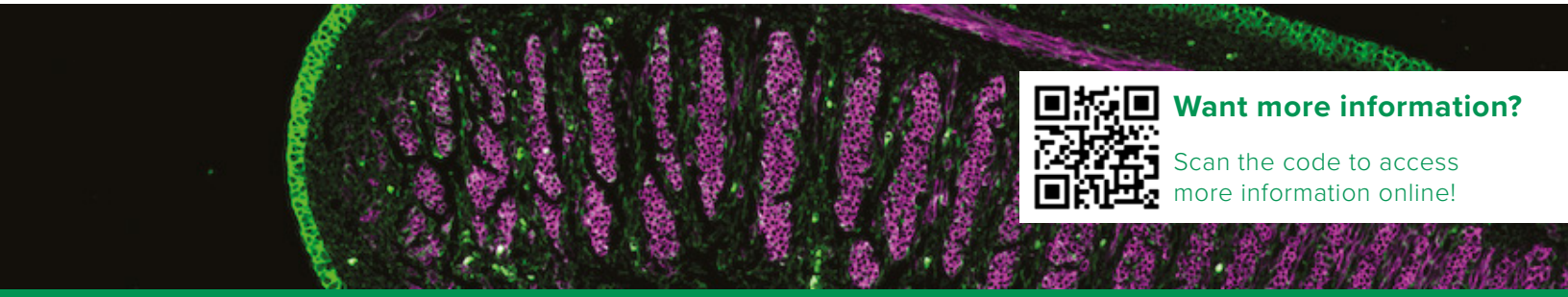
About AffiniPure-VHH® Secondary Antibodies

Jackson ImmunoResearch AffiniPure-VHH® are polyclonal single domain antibodies (nanobodies) produced in Alpacas. They are available with specificity to **Human, Rabbit or Mouse**. Being 10x smaller than conventional whole IgG antibodies, the <15kDa VHH Fragments are perfect for imaging experiments where good penetration is necessary. AffiniPure-VHH® Secondary antibodies are cross-adsorbed for exquisite specificity against target species with minimal cross-reactivity to other commonly used species, making them suitable for application in multiple labeling experiments. They are available conjugated to a range of fluorescent dyes including Alexa Fluor®, providing scope for high-resolution immunohistochemistry and immunofluorescence.

Advantages of AffiniPure-VHH® Secondary Antibodies

- **Small size means access to higher resolution imaging -** a fifth of the size of conventional antibody complexes AffiniPure-VHH® secondaries enable higher resolution imaging suitable for characterization of protein conformations, ligand and receptor relationships, and stoichiometries by Single-Molecule Localization Microscopy (SMLM) such as FRET (Förster Resonance Energy Transfer) or TIRF (Total Internal Reflection Fluorescence).
- **Polyclonal means reliable and superior signal -** Polyclonal detection reagents continue to offer the best sensitivity by amplifying signal, even from poorly expressing targets.
- **Cross-adsorbed for better specificity and lower background -** They are cross-adsorbed against commonly used species to reduce background and enhance specificity and can be used in combination to generate multiple labeling images.
- **Excellent penetration and clearance -** due to their small size they can move more freely through the tissue compared to conventional antibodies enabling excellent tissue penetration and clearance without extended incubations.
- **Stain cells, dead or alive! -** Nanobodies, have no Fc fragment and can be used for immunostaining of live cells.
- **Access to an entire spectrum of dyes -** conjugated to fluors from ultraviolet to far-red, AffiniPure-VHH® secondaries provide maximum flexibility for experiments imaging multiple targets.



Want more information?

Scan the code to access more information online!