

Jackson

# ImmunoResearch

# AffiniPure-VHH<sup>™</sup>

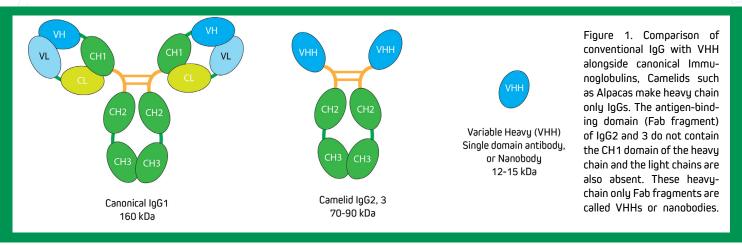
## **Polyclonal VHH fragment antibodies** from Jackson ImmunoResearch

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Jackson ImmunoResearch AffiniPure-VHH™ Secondaries are a specialized detection reagent that harnesses the unique properties of VHH Fragments to produce high-quality results. Learn more...

Camelid species such as Alpaca and Llama produce a unique class of antibodies composed only of heavy chains. The antigen-binding fragments (Fab), also termed Variable Heavy-Chain only fragment antibodies (VHH Fragments), or nanobodies are an exciting, novel antibody format. With their small 15 kDa size and outstanding specificity and penetration, VHH Fragments offer a fantastic solution for high-quality and high-resolution imaging.



### www.stratech.co.uk/jackson\_immunoresearch

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## Jackson

#### LABORATORIES INC.

ImmunoResearch

# AMPLIFY THE DETAIL AffiniPure-VHH<sup>™</sup>

## About AffiniPure-VHH<sup>™</sup> Secondary antibodies

Jackson ImmunoResearch AffiniPure-VHH<sup>™</sup> 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 Fragment antibodies are perfect for imaging experiments where good penetration is necessary. AffiniPure-VHH<sup>™</sup> 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 reporter enzymes and a range of fluorescent dyes including Alexa Fluor® providing scope for high-resolution Immunohistochemistry and Immunofluorescence.

## Advantages of AffiniPure-VHH<sup>™</sup> Secondary antibodies

- Small size means access to higher resolution imaging a 5th of the size of conventional antibody complexes AffiniPure-VHH<sup>™</sup> 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 JIR AffiniPure-VHH™ Secondaries are cross-adsorbed against commonly used species to reduce background and enhance specificity and can be used in combination to generate exquisitely specific 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<sup>™</sup> secondaries provide maximum flexibility for experiments imaging multiple targets.

# Want more information?

Scan the code to access more information online!





