

For Research Use Only

Nano-Secondary® anti-human IgG/anti-rabbit IgG, recombinant VHH, Alexa Fluor® 568 [CTK0101, CTK0102]

Catalog Number: srbAF568-1

8 Publications



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Basic Information

Catalog Number:

srbAF568-1

Applications:

IF, WB, FC

Host:

Alpaca

Conjugate:

Alexa Fluor® 568

Type:

Mixture of 2 monoclonal Nanobodies;
Secondary Nanobody

Class:

Recombinant

RRID:

AB_2827586

Purification Method:

Recombinant expression, affinity purification
IMAC

Description

Nano-Secondary® anti-human IgG/anti-rabbit IgG, recombinant VHH is an anti-human IgG and anti-rabbit IgG specific secondary antibody. It consists of a mixture of 2 Nanobodies that bind to human IgG and rabbit IgG with high affinity & specificity.

Species Reactivity

Rabbit, Human, Macaque

No cross-reactivity to mouse, rat, sheep, goat, and guinea pig IgG

Physical State

Liquid

Suggested Dilution

Immunofluorescence 1:1,000

Super-resolution microscopy 1:1,000

Western blot 1:1,000

Affinity (K_D)

CTK0101: K_D = 0.2 nM, CTK0102: K_D = 1.2 nM

Storage

Storage:

Store at -20°C short term or -80°C long term. Aliquot upon delivery. Avoid freeze-thaw cycles.

Storage Buffer:

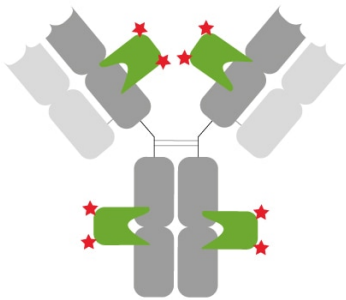
10 mM HEPES pH 7.0, 500 mM NaCl, 5 mM EDTA, Preservative: 0.09 % Sodium azide

For technical support and original validation data for this product please contact

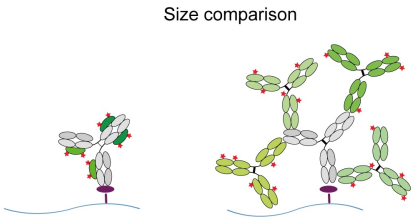
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or E: proteintech@ptglab.com
1(312) 455-8498 (outside USA) W: www.ptglab.com

This product is exclusively available under
Proteintech Group brand and is not available
to purchase from any other manufacturer.

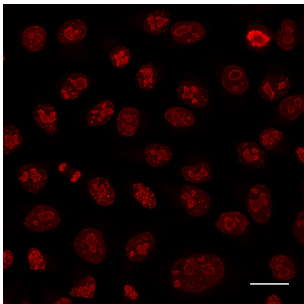
Selected Validation Data



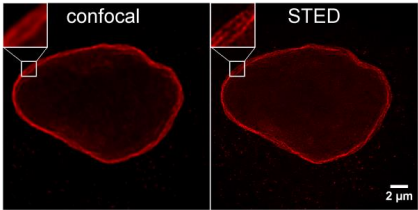
Well-defined and characterized immunostaining: Primary anti-rabbit IgG antibody (grey) with 2 copies each of a rabbit Fab- and Fc-specific monoclonal Nanobodies (green) bound. In total, 8 fluorophores (red stars) label the primary rabbit IgG antibody.



Higher resolution with anti-rabbit IgG Nano-Secondaries compared to conventional secondary antibodies: Left: Formation of a small, precise complex of Nanobodies (green) & primary antibody (grey). Right: Formation of a large, arbitrary complex of multiple polyclonal secondaries (green) & primary rabbit antibody.



Alpaca anti-rabbit IgG VHH Alexa Fluor® 568 was applied together with rabbit anti-Ki67 antibodies for detection of Ki67 (red) in HeLa cells. Scale bar, 20 µm. Images were recorded at the Core Facility Bioimaging at the Biomedical Center, LMU Munich.



HeLa cells were immunostained with rabbit anti-Lamin B1 antibodies and alpaca anti-rabbit IgG VHH Alexa Fluor® 568 (1:1,000). Confocal and gated STED images were acquired with a Leica TCS SP8 STED 3X microscope, pulsed depletion with a 775 nm laser. Images were recorded at the Core Facility Bioimaging at the Biomedical Center, LMU Munich.

High specificity

	Mouse gamma globuline	Rat gamma globuline	Rabbit gamma globuline
Alpaca anti-rabbit IgG, recombinant VHH			
Competitor A: Goat anti-rabbit secondary antibody, pre-adsorbed against mouse serum			

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