

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:

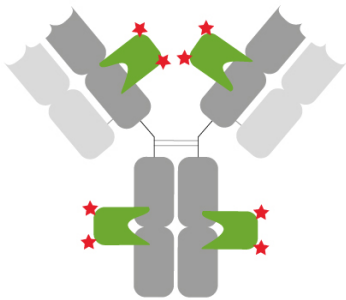
T: 4006900926

E: Proteintech-CN@ptglab.com

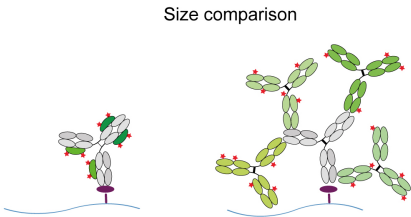
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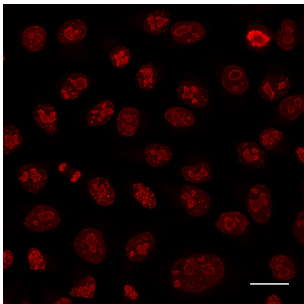
Selected Validation Data



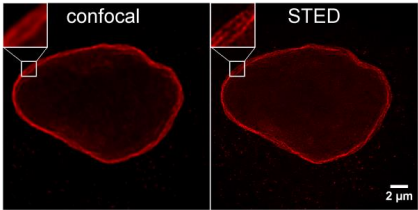
Well-defined and characterized immunostaining: Primary anti-rabbit IgG antibody (grey) with 2 copies each of a rabbit Fab- and Fc-specific monoclonal Nanobodies (green) bound. In total, 8 fluorophores (red stars) label the primary rabbit IgG antibody.



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 μ m. 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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