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# Nano-Secondary® anti-mouse IgG1, recombinant VHH, Alexa Fluor® 568 [CTK0103, CTK0104]

Catalog Number: sms1AF568-1

8 Publications



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## Basic Information

**Catalog Number:**  
sms1AF568-1

**Applications:**  
IF, WB, FC

**Host:**  
Alpaca

**Conjugate:**  
Alexa Fluor® 568

**Type:**

Mixture of 2 monoclonal Nanobodies

**Class:**

Recombinant

**RRID:**

AB\_2827579

**Purification Method:**

Recombinant expression, affinity purification  
IMAC

## Description

Nano-Secondary® anti-mouse IgG1, Fc-specific recombinant VHH reagent uses a novel class of anti-mouse IgG isotype specific antibodies. This secondary antibody product consists of Nanobodies that bind to mouse IgG1 with high affinity & specificity.

## Species Reactivity

Mouse IgG1 Fc-fragment

No cross-reactivity: goat, guinea pig, rabbit, rat, sheep, human, macaque serum proteins, mouse IgG2a, IgG2b, IgG2c, IgG3

## Physical State

Liquid

## Suggested Dilution

Immunofluorescence 1:500

Super-resolution microscopy 1:500

Western blot 1:1,000

## Affinity (K<sub>D</sub>)

CTK0103: K<sub>D</sub> = 0.13 nM, CTK0104: K<sub>D</sub> = 0.63 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:

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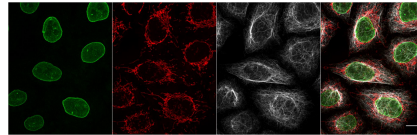
W: www.ptgcn.com

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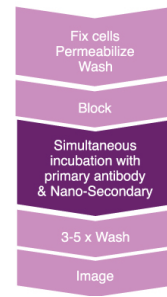
## Selected Validation Data



Anti-mouse IgG1 Nano-Secondary: Well-defined and characterized immunostaining. Primary anti-mouse IgG1 antibody (grey) with 2X2 monoclonal mouse Fc- specific Nanobodies (green) bound. In total, 8 fluorophores (red stars) label the mouse IgG1 primary antibody.



One-step immunostaining is the simultaneous incubation of mouse IgG1 primary antibody and anti-mouse IgG1 Nano-Secondary. This method reduces incubation and hands-on time. Simultaneous incubation also supports multiplexing, tissue penetration, and cell staining for flow cytometry.



HeLa cells were immunostained with mouse IgG1 anti- $\alpha$  Tubulin antibody + alpaca anti-mouse IgG1 VHH Alexa Fluor® 568 (red). Nuclei were stained with DAPI (blue). Scale bar, 10  $\mu$  m. Images were recorded at the Core Facility Bioimaging at the Biomedical Center, LMU Munich.