

For Research Use Only

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_D)

CTK0103: K_D = 0.13 nM, CTK0104: K_D = 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

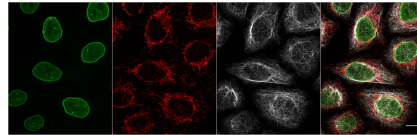
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1(312) 455-8498 (outside USA) W: www.ptglab.com

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

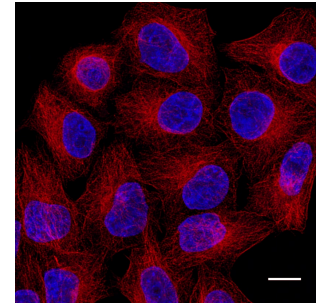
Selected Validation Data



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