

For Research Use Only

Nano-Secondary® anti-mouse IgG2a, recombinant VHH, CoraLite® Plus 647 [CTK0114]

Catalog Number: smsG2aCL647-1



www.ptgcn.com

Basic Information

Catalog Number:

smsG2aCL647-1

Applications:

IF, FC

Host:

Alpaca-derived, recombinantly produced in bacteria

Conjugate:

CoraLite® Plus 647

Type:

Secondary Nanobody

Class:

Recombinant

RRID:

AB_2935698

Purification Method:

Recombinant expression, affinity purification IMAC

Description

Nano-Secondary® anti-mouse IgG2a, Fc-specific recombinant VHH is an anti-mouse IgG subclass specific antibody. This secondary antibody product consists of Nanobodies that bind to mouse IgG2a with high affinity & specificity.

Species Reactivity

Mouse IgG2a Fc-fragment

No cross-reactivity: goat, guinea pig, rabbit, rat, sheep, human, macaque serum proteins, mouse IgG1, IgG2b, IgG2c, IgG3

Physical State

Liquid

Suggested Dilution

Immunofluorescence 1:500

Flow cytometry: 1µL per 1x10⁶ cells.

Affinity (K_D)

K_D <10 pM

Storage

Storage:

Shipped at ambient temperature. Store at +4°C short term or -20°C long term. Stable for 1 year at -20°C.

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:

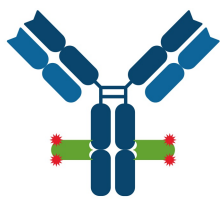
T: 4006900926

E: Proteintech-CN@ptglab.com

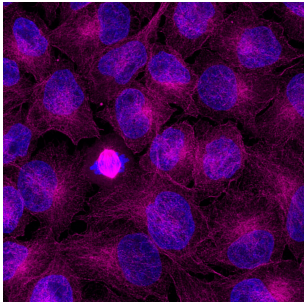
W: www.ptgcn.com

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

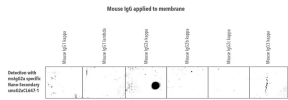
Selected Validation Data



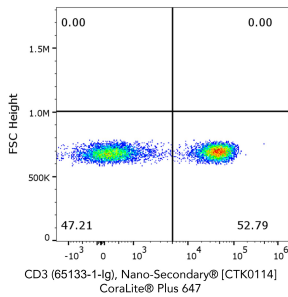
Schematic representation of anti-mouse IgG2a Nano-Secondary binding to its target. Mouse IgG2a primary antibody (grey) is bound with two identical monoclonal mouse IgG2a Fc- specific Nanobody molecules (green). In total, 4 fluorophores (red stars) label the mouse IgG2a primary antibody.



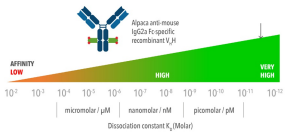
Immunofluorescence analysis of HeLa cells stained with mouse IgG2a anti-Tubulin antibody (66240-1-Ig) and Nano-Secondary® alpaca anti-mouse IgG2a, recombinant VHH, CoraLite® Plus 647 (magenta). Nuclei were stained with DAPI (blue). Images were recorded at the Core Facility Bioimaging at the Biomedical Center, LMU Munich.



Dot-blot assay demonstrates that anti-mouse IgG2a Nano-Secondary is subclass-specific and does not cross-react with other mouse IgG subclasses including IgG1, IgG2b, IgG2c and IgG3.



Flow cytometry analysis of 1x10⁶ human peripheral blood mononuclear cells (PBMCs) stained with anti-human CD3 (clone OKT3, 65133-1-Ig) and Nano-Secondary® alpaca anti-mouse IgG2a, recombinant VHH, CoraLite® Plus 647.



The alpaca anti-mouse IgG2a Fc-specific recombinant VHH [CTK0114] has a very high affinity (KD < 10 pM) for mouse IgG2a primary antibody.