

For Research Use Only

Nano-Secondary® anti-human IgG, recombinant VHH, CoraLite® Plus 647 [CTK0117]

Catalog Number: **shuGCL647-2**

1 Publications



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Basic Information

Catalog Number:

shuGCL647-2

Applications:

IF, FC

Host:

Alpaca

Conjugate:

CoraLite® Plus 647

Type:

Secondary Nanobody

Class:

Recombinant

RRID:

AB_3075304

Purification Method:

Recombinant expression, affinity purification

IMAC

Description

Nano-Secondary® anti-human IgG, recombinant VHH, is a human IgG-specific (IgG1, IgG2, IgG3, IgG4) antibody. This secondary antibody product consists of a Nanobody that binds to the Fc-domain of human IgG with high affinity & specificity.

Species Reactivity

Reactivity: human IgG1, IgG2, IgG3, IgG4, Fc-fragment of human IgG, including wt, PGLALA and PALALA mutations. Slight reactivity to macaque serum.

No cross-reactivity: human IgA/IgM/IgE, serum proteins from goat, guinea pig, mouse rabbit, rat, sheep.

Physical State

Liquid

Suggested Dilution

Immunofluorescence 1:500 - 1:1000

Flow cytometry: 1µL per 1x10⁶ cells

Affinity (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:

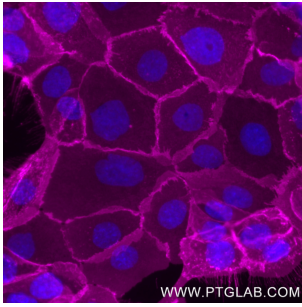
10 mM HEPES pH 7.0, 500 mM NaCl, 5 mM EDTA, Preservative: 0.09 % Sodium azide

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

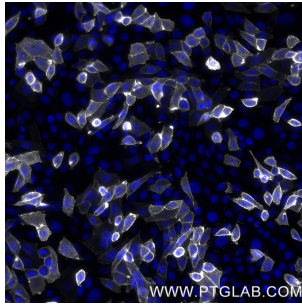
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or E: proteintech@ptglab.com
1(312) 455-8498 (outside USA) W: www.ptglab.com

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

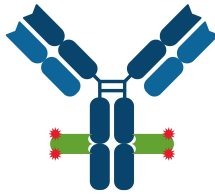
Selected Validation Data



Live A431 cells were incubated with anti-human EGFR (Cetuximab biosimilar) followed by Nano-Secondary® alpaca anti-human IgG, recombinant VHH, Coralite® Plus 647 [CTK0117] (magenta, slugC6L47-2). Cells were fixed and nuclei were stained with DAPI (blue). Epifluorescence images were acquired with a 40x objective and post-processed.

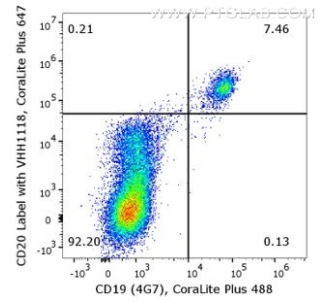
[illegible]

Immunofluorescence analysis of transgenic CHO-TIM3 cells. PFA-fixed cells were stained with anti-human TIM3 (Cobolimab biosimilar), Nano-Secondary® alpaca anti-human IgG, recombinant VHH, CoraLite® Plus 647 [CTK0117] (gray) and DAPI (blue).



Dot blot assay demonstrates that anti-human IgG Nano-Secondary (CTK0117) has no cross-reactivity to human IgA/IgM/IgE, and goat, guinea pig, mouse, rabbit, rat, and sheep serum. It shows slight cross-reactivity to macaque serum.

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



Flow cytometry analysis of 1X10⁶ human peripheral blood mononuclear cells (PBMCs) stained with anti-human CD20 (Rituximab biosimilar) and Nano-Secondary® alpaca anti-human IgG, recombinant VHh, Coralite® Plus 647 (CTK0117) (shuGCL647-2). Cells were co-stained with Coralite® Plus 488 conjugated anti-human CD19 antibody.