

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

Product code: smsG2aCL647-1

Properties

Description	Monovalent, recombinant secondary single domain antibody to mouse IgG2a: alpaca monoclonal Nanobody, Fc-specific, CoraLite® Plus 647 conjugated
Product type	Nano-Secondary® Reagent, secondary Nanobody (VHH)
Format	Alpaca single domain antibody, monovalent
Host	Alpaca-derived, recombinantly produced in bacteria
Target/Specificity	Fc-fragment of mouse IgG2a
Cross-reactivity	No cross-reactivity to goat, guinea pig, human, macaque, rabbit, rat, and sheep serum and to mouse IgG1, IgG2b, IgG2c, and IgG3
Immunogen	Purified mouse IgG2a
Clonality	Monoclonal Nanobody
Clones	CTK0114 (VHH0913)
Affinity (Kd)	CTK0114: $K_d = <10$ pM
Conjugate	CoraLite® Plus 647
Excitation / Emission	Excitation max: 654 nm, Emission max: 674 nm
Degree of labeling (DOL)	2 fluorophores per Nanobody
Synonyms	Alpaca single domain antibody, VHH, Nanobody, binding domain of single domain antibody, Nano-antibody
Validation	Application validated for immunofluorescence and flow cytometry. Determination of cross-reactivity, sequence, affinity, melting point, and degree of labeling (DOL).
Purity	Recombinantly expressed and purified
Form	Buffered aqueous solution
Concentration	0.5 mg/mL
Storage buffer	10 mM HEPES pH 7.0, 500 mM NaCl, 5 mM EDTA Preservative: 0.09 % sodium azide, safety datasheet (SDS): sodium azide
Storage instructions	Shipped at ambient temperature. Store at +4°C short term or -20°C long term. Stable for 1 year at -20°C.
Size	10 µL; 100 µL
RRID	AB_2935698

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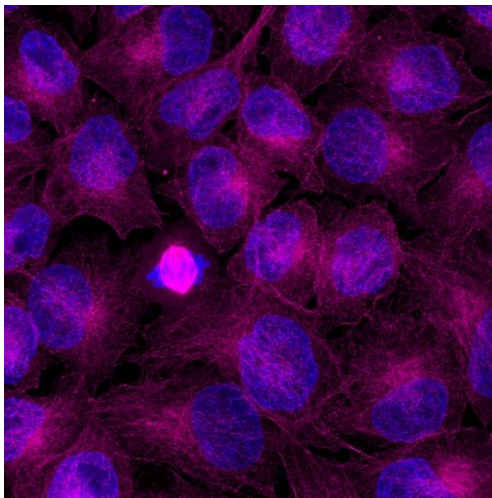
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Applications

Immunofluorescence: recommended starting dilution 1:500
 Flow cytometry: recommended starting quantity 1 µL per 1x10⁶ cells.
 The optimal dilution should be determined by the user. A titration range is recommended.

Tested applications

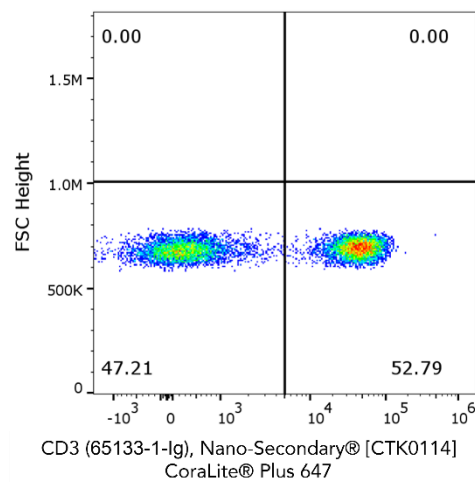
Immunofluorescence



Immunofluorescence analysis of HeLa cells.

PFA-fixed HeLa cells were stained with anti-Tubulin (66240-1-Ig) and Nano-Secondary® alpaca anti-mouse IgG2a, recombinant VHH, CoraLite® Plus 647 [CTK0114] (magenta) and DAPI (blue). Confocal images were acquired with a 100x oil objective and post-processed. Images were recorded at the Core Facility Bioimaging at the Biomedical Center, LMU Munich.

Flow cytometry



Flow cytometry analysis of PBMCs.

1x10⁶ human peripheral blood mononuclear cells (PBMCs) were stained with anti-human CD3 (clone OKT3, 65133-1-Ig) and Nano-Secondary® alpaca anti-mouse IgG2a, recombinant VHH, CoraLite® Plus 647 [CTK0114].

Only for research applications, not for diagnostic or therapeutic use.

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