

# Nano-Secondary® alpaca anti-mouse IgG2a, recombinant VHH, CoraLite® Plus 750 [CTK0114]

Product code: smsG2aCL750-1

## Properties

<b>Description</b>	Monovalent, recombinant secondary single domain antibody to mouse IgG2a: alpaca monoclonal Nanobody, Fc-specific, CoraLite® Plus 750 conjugated
<b>Product type</b>	Nano-Secondary® Reagent, secondary Nanobody (VHH)
<b>Format</b>	Alpaca single domain antibody, monovalent
<b>Host</b>	Alpaca-derived, recombinantly produced in bacteria
<b>Target/Specificity</b>	Fc-fragment of mouse IgG2a
<b>Cross-reactivity</b>	No cross-reactivity to goat, guinea pig, human, macaque, rabbit, rat, and sheep serum and to mouse IgG1, IgG2b, IgG2c, and IgG3
<b>Immunogen</b>	Purified mouse IgG2a
<b>Clonality</b>	Monoclonal Nanobody
<b>Clones</b>	CTK0114 (VHH0913)
<b>Affinity (Kd)</b>	CTK0114: $K_d = <10$ pM
<b>Conjugate</b>	CoraLite® Plus 750
<b>Excitation / Emission</b>	Excitation max: 755 nm, Emission max: 780 nm
<b>Degree of labeling (DOL)</b>	2 fluorophores per Nanobody
<b>Synonyms</b>	Alpaca single domain antibody, VHH, Nanobody, binding domain of single domain antibody, Nano-antibody
<b>Validation</b>	Application validated for immunofluorescence and flow cytometry. Determination of cross-reactivity, sequence, affinity, melting point, and degree of labeling (DOL).
<b>Purity</b>	Recombinantly expressed and purified
<b>Form</b>	Buffered aqueous solution
<b>Concentration</b>	0.5 mg/mL
<b>Storage buffer</b>	10 mM HEPES pH 7.0, 500 mM NaCl, 5 mM EDTA Preservative: 0.09 % sodium azide, safety datasheet (SDS): sodium azide
<b>Storage instructions</b>	Shipped at ambient temperature. Store at +4°C short term or -20°C long term. Stable for 1 year at -20°C.
<b>Size</b>	10 µL; 100 µL
<b>RRID</b>	AB_2935699

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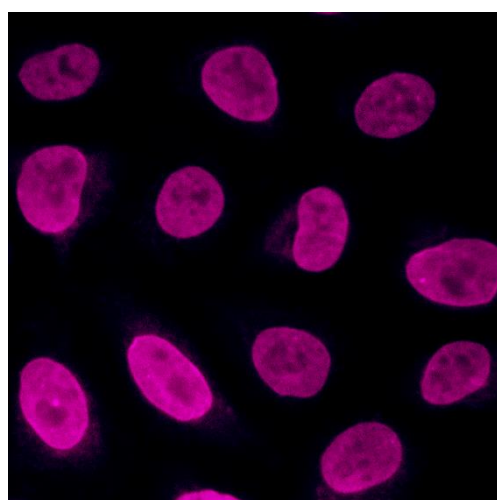
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## Applications

Immunofluorescence: recommended starting dilution 1:500  
 Flow cytometry: recommended starting quantity 1 µL per 1x10<sup>6</sup> cells.  
 The optimal dilution should be determined by the user. A titration range is recommended.

## Tested applications

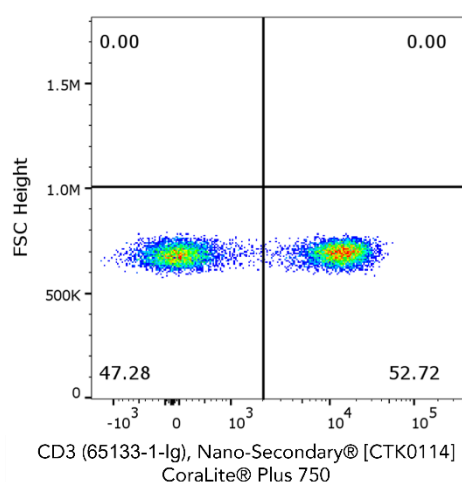
### Immunofluorescence



#### Immunofluorescence analysis of HeLa cells.

PFA-fixed HeLa cells were stained with anti-Lamin B2 and Nano-Secondary® alpaca anti-mouse IgG2a, recombinant VHH, CoraLite® Plus 750 [CTK0114] (magenta). Epifluorescence images were acquired with a 20x objective and post-processed.

### Flow cytometry



#### Flow cytometry analysis of PBMCs.

1x10<sup>6</sup> 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 750 [CTK0114].

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

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