

# Nano-Secondary® alpaca anti-rabbit IgG, recombinant VHH, CoraLite® Plus 488 [CTK0119, CTK0120]

Product code: srb2GCL488-1

## Properties

<b>Description</b>	Monovalent, recombinant secondary single domain antibody to rabbit IgG: Mixture of 2 alpaca monoclonal Nanobodies, Fc-specific, CoraLite® Plus 488 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>	Rabbit IgG
<b>Cross-reactivity</b>	No cross-reactivity to mouse, rat or human IgGs
<b>Immunogen</b>	Purified rabbit IgG
<b>Clonality</b>	Biclonal: mixture of 2 monoclonal Nanobodies
<b>Clones</b>	CTK0119 (VHH0708), CTK0120 (VHH0953)
<b>Affinity (Kd)</b>	CTK0119: KD = 0.2 nM, CTK120: KD = <10 pM
<b>Conjugate</b>	CoraLite® Plus 488
<b>Excitation / Emission</b>	Excitation max: 490 nm, Emission max: 525 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 western blotting. 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_3094639

## Nano-Secondary® alpaca anti-rabbit IgG, recombinant VHH, CoraLite® Plus 488 [CTK0119, CTK0120]

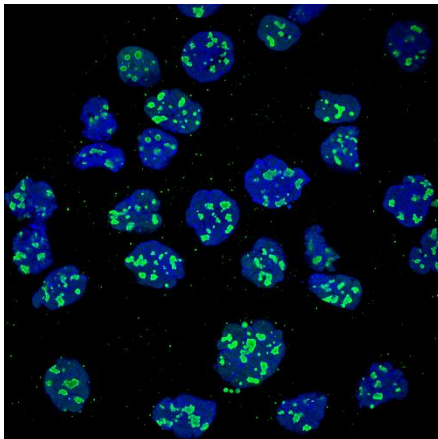
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### Applications

Immunofluorescence: recommended starting dilution 1:500.  
Western blot: recommended starting dilution 1:500.  
The optimal dilution should be determined by the user. A titration range is recommended.

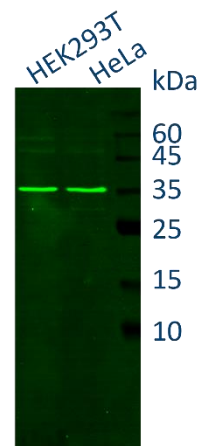
## Tested applications

### Immunofluorescence



Immunofluorescence analysis of A431 cells stained with rabbit anti-NCL antibody (10556-1-AP, green) and Nano-Secondary® alpaca anti-rabbit IgG, recombinant VHH, CoraLite® Plus 488 (srb2GCL488-1), 1:500. Nuclei were stained with DAPI (blue). Images were recorded at the Core Facility Bioimaging at the Biomedical Center, LMU Munich.

### Western blot



HEK-293 and HeLa cell lysates were subjected to SDS-PAGE followed by fluorescent western blot analysis with rabbit anti-GAPDH antibody (10494-1-AP) and Nano-Secondary® alpaca anti-rabbit IgG, recombinant VHH, CoraLite® Plus 488 (srb2GCL488-1), 1:500.

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

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