

Nano-Secondary® alpaca anti-rabbit IgG, recombinant VHH, CoraLite® Plus 555 [CTK0119, CTK0120]

Product code: srb2GCL555-1

Properties

Description	Monovalent, recombinant secondary single domain antibody to rabbit IgG: Mixture of 2 alpaca monoclonal Nanobodies, Fc-specific, CoraLite® Plus 555 conjugated
Product type	Nano-Secondary® Reagent, secondary Nanobody (VHH)
Format	Alpaca single domain antibody, monovalent
Host	Alpaca-derived, recombinantly produced in bacteria
Target/Specificity	Rabbit IgG
Cross-reactivity	No cross-reactivity to mouse, rat or human IgGs
Immunogen	Purified rabbit IgG
Clonality	Biclonal: mixture of 2 monoclonal Nanobodies
Clones	CTK0119 (VHH0708), CTK0120 (VHH0953)
Affinity (Kd)	CTK0119: KD = 0.2 nM, CTK120: KD = <10 pM
Conjugate	CoraLite® Plus 555
Excitation / Emission	Excitation max: 554 nm, Emission max: 570 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 western blotting. Determination of cross-reactivity, sequence, affinity, melting point, and degree of labeling (DOL).
Purity	Recombinantly expressed and purified
Form	Buffered aqueous solution
Concentration	1 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_3094640

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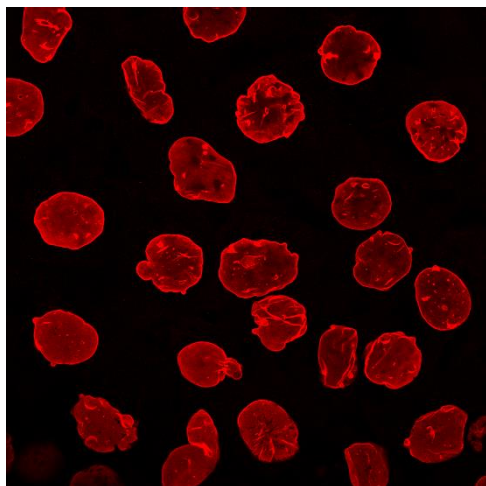
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Applications

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.

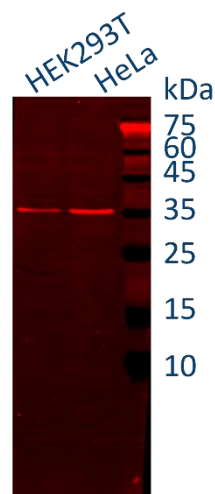
Tested applications

Immunofluorescence



Immunofluorescence analysis of A431 cells stained with rabbit anti-Lamin B1 antibody (12987-1-AP, red) and Nano-Secondary® alpaca anti-rabbit IgG, recombinant VHH, CoraLite® Plus 555 (srb2GCL555-1), 1:500. Nuclei were stained with DAPI. 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 555 (srb2GCL555-1), 1:500.

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

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