

## Nano-Secondary® alpaca anti-mouse IgG1, recombinant VHH, CoraLite® Plus 555 [CTK0103, CTK0104]

Product code: smsG1CL555-1

### Properties

<b>Description</b>	Monovalent, recombinant secondary single domain antibody to mouse IgG1: Mixture of 2 alpaca monoclonal Nanobodies, Fc-specific, CoraLite® Plus 555 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 IgG1
<b>Cross-reactivity</b>	No cross-reactivity to goat, guinea pig, human, macaque, rabbit, rat, and sheep serum and to mouse IgG2a, IgG2b, IgG2c, IgG3, and IgM
<b>Immunogen</b>	Purified mouse IgG1
<b>Clonality</b>	Biclonal: mixture of 2 monoclonal Nanobodies
<b>Clones</b>	CTK0103 (VHH0302), CTK104 (VHH0305)
<b>Affinity (Kd)</b>	CTK0103: KD = 0.13 nM, CTK104: KD = 0.63 nM
<b>Conjugate</b>	CoraLite® Plus 555
<b>Excitation / Emission</b>	Excitation max: 554 nm, Emission max: 570 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>	1 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_2941311

# Nano-Secondary® alpaca anti-mouse IgG1, recombinant VHH, CoraLite® Plus 555 [CTK0103, CTK0104]

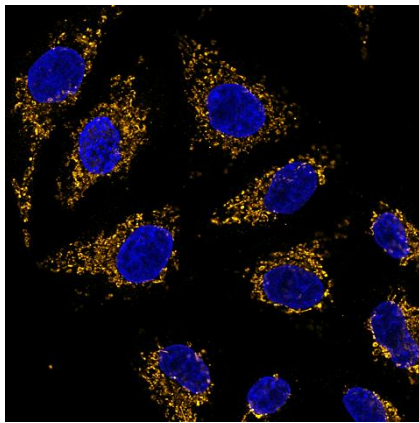
Product code: smsG1CL555-1

## 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.

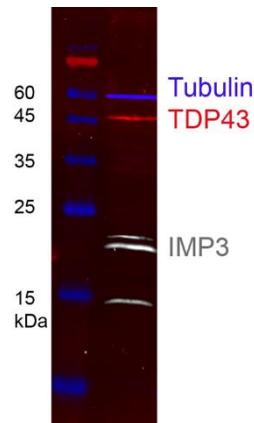
## Tested applications

### Immunofluorescence



Immunofluorescence analysis of HeLa cells stained with mouse IgG1 anti-HSP60 antibody (66041-1-Ig) and Nano-Secondary® alpaca anti-mouse IgG1, recombinant VHH, CoraLite® Plus 555 (smsG1CL555-1, orange). Nuclei were stained with DAPI (blue). Images were recorded at the Core Facility Bioimaging at the Biomedical Center, LMU Munich.

### Western blot



HEK-293 cell lysates were subjected to SDS-PAGE followed by multiplex western blot analysis with 3 mouse primary antibodies including anti-TDP43 (60019-1-Ig), anti-tubulin (66240-1-Ig), and anti-IMP3 (66247-1-Ig). Primary antibodies were detected using 3 mouse IgG subclass-specific nano-secondary reagents including Nano-Secondary® alpaca anti-mouse IgG1, recombinant VHH, CoraLite® Plus 555 (smsG1CL555-1, red), Nano-Secondary® alpaca anti-mouse IgG2a, recombinant VHH, CoraLite® Plus 647 (smsG2aCL647-1, blue), and Nano-Secondary® alpaca anti-mouse IgG2b, recombinant VHH, CoraLite® Plus 750 (smsG2bCL750-1, grey).

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

ChromoTek is a registered trademark of ChromoTek GmbH, part of Proteintech Group. CoraLite is a registered trademark of Proteintech Group. Nanobody is a registered trademark of Ablynx, a Sanofi company. Other suppliers' products may be trademarks or registered trademarks of the corresponding supplier each. Statements on other suppliers' products are given according to our best knowledge.