

# Nano-Secondary® alpaca anti-mouse IgG2b, recombinant VHH, CoraLite® Plus 555 [CTK0105, CTK0106]

Product code: smsG2bCL555-1

## Properties

|                                 |  |
|---------------------------------|--|
| <b>Description</b>              | Monovalent, recombinant secondary single domain antibody to mouse IgG2b: 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 IgG2b   |
| <b>Cross-reactivity</b>         | No cross-reactivity to goat, guinea pig, human, macaque, rabbit, rat, and sheep serum and to mouse IgG1, IgG2a, IgG2c, IgG3, and IgM                                   |
| <b>Immunogen</b>                | Purified mouse IgG2b   |
| <b>Clonality</b>                | Biclonal: mixture of 2 monoclonal Nanobodies   |
| <b>Clones</b>                   | CTK0105 (VHH0275), CTK106 (VHH0288)  |
| <b>Affinity (Kd)</b>            | CTK0105: KD = 5 nM, CTK106: KD = 0.2 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<br>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_2941315   |

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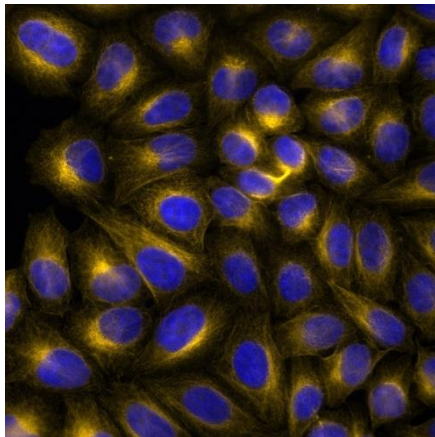
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## Applications

Immunofluorescence: recommended dilution range of 1:500-1:1000.  
 Western blot: recommended dilution range of 1:500-1:1000.  
 The optimal dilution should be determined by the user. A titration range is recommended.

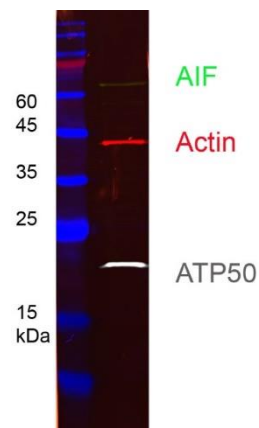
## Tested applications

### Immunofluorescence



Immunofluorescence analysis of HeLa cells stained with mouse IgG2b anti-Tubulin beta antibody and Nano-Secondary® alpaca anti-mouse IgG2b, recombinant VHH, CoraLite® Plus 555 (smsG2bCL555-1, orange). Nuclei were stained with DAPI (blue).

### Western blot



HEK-293 cell lysates were subjected to SDS-PAGE followed by multiplex western blot analysis with 3 mouse primary antibodies including anti-ATP50 (66696-1-Ig), anti-AIF (67791-1-Ig), and anti-actin (66009-1-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 750 (smsG1CL750-1, grey), Nano-Secondary® alpaca anti-mouse IgG2a, recombinant VHH, CoraLite® Plus 488 (smsG2aCL488-1, green), and Nano-Secondary® alpaca anti-mouse IgG2b, recombinant VHH, CoraLite® Plus 555 (smsG2bCL555-1, red).

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

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