

# Nano-Secondary<sup>®</sup> alpaca anti-mouse IgG2b, recombinant VHH, Alexa Fluor<sup>®</sup> 647 [CTK0105, CTK0106]



Product code: sms2bAF647-1

## Properties

<b>Description</b>	Monovalent, recombinant secondary single domain antibodies to mouse IgG2b: Mixture of 2 alpaca monoclonal Nanobodies, Fc-specific, Alexa Fluor <sup>®</sup> 647 conjugated
<b>Product Type</b>	Nano-Secondary <sup>®</sup> , 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 IgG1, IgG2a, IgG2c, and IgG3
<b>Immunogen</b>	Purified mouse IgG2b
<b>Clonality</b>	Biclonal: mixture of 2 monoclonal Nanobodies
<b>Clones</b>	CTK0105, CTK0106 (VHH0275, VHH0288)
<b>Affinity (Kd)</b>	CTK0105: Kd = 5.0 nM, CTK0106: Kd = 0.2 nM
<b>Conjugate</b>	Site-directed conjugation to Alexa Fluor 647
<b>Excitation/ Emission</b>	Excitation max: 650 nm, Emission max: 665 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 -20°C/-4°F. Avoid freeze-thaw cycles. Aliquot upon arrival. Protect from light. Stable for 6 months.
<b>Size</b>	10 µL; 100 µL
<b>RRID</b>	AB_2827583

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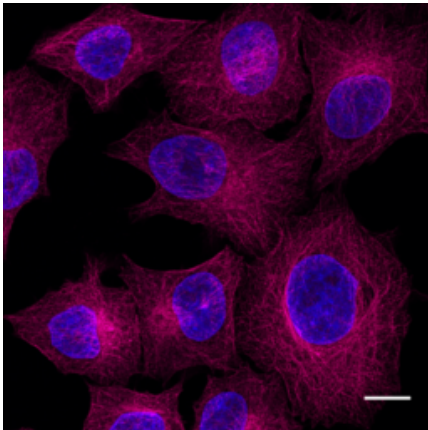


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<b>Applications</b>	Spin down material before use!  IF/ICC: recommended starting dilution 1:1,000 (e.g. PBS supplemented with 4% BSA) Western blot: recommended starting dilution 1:1,000 (e.g. PBS supplemented with 0.075% Tween-20 and 5% skimmed milk) <i>Note:</i> The optimal dilution depends on the application and should be determined by the user. A titration from range from 1:250 up to 1:2,000 is recommended. <i>Note:</i> Image acquisition time may have to be optimized.
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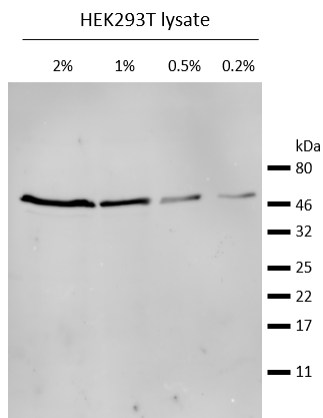
## Tested Applications

### Immunofluorescence



*Immunostaining of  $\beta$ -Tubulin in HeLa cells with mouse anti- $\beta$ -Tubulin antibody and Nano-Secondary<sup>®</sup> alpaca anti-mouse IgG2b, recombinant VHH, Alexa Fluor<sup>®</sup> 647 [CTK0105, CTK0106] 1:1,000 (magenta). Nuclei were stained with DAPI (blue). Scale bar, 10  $\mu$ m.*

### Western Blot



*Western blot analysis of endogenous  $\beta$ -Tubulin in HEK293T cell lysate. Detection with mouse anti- $\beta$ -Tubulin antibody and Nano-Secondary<sup>®</sup> alpaca anti-mouse IgG2b, recombinant VHH, Alexa Fluor<sup>®</sup> 647 [CTK0105, CTK0106] 1:1,000.*

# Nano-Secondary® alpaca anti-mouse IgG2b, recombinant VHH, Alexa Fluor® 647 [CTK0105, CTK0106]



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## Product overview and related products

Nano-Secondaries (Alexa Fluor® conjugated)	Product code
Nano-Secondary® alpaca anti-human IgG/anti-rabbit IgG, recombinant VHH, Alexa Fluor® 488 [CTK0101, CTK0102]	srbAF488-1-10; -100
Nano-Secondary® alpaca anti-human IgG/anti-rabbit IgG, recombinant VHH, Alexa Fluor® 568 [CTK0101, CTK0102]	srbAF568-1-10; -100
Nano-Secondary® alpaca anti-human IgG/anti-rabbit IgG, recombinant VHH, Alexa Fluor® 647 [CTK0101, CTK0102]	srbAF647-1-10; -100
Nano-Secondary® alpaca anti-mouse IgG1, recombinant VHH, Alexa Fluor® 488 [CTK0103, CTK0104]	sms1AF488-1-10; -100
Nano-Secondary® alpaca anti-mouse IgG1, recombinant VHH, Alexa Fluor® 568 [CTK0103, CTK0104]	sms1AF568-1-10; -100
Nano-Secondary® alpaca anti-mouse IgG1, recombinant VHH, Alexa Fluor® 647 [CTK0103, CTK0104]	sms1AF647-1-10; -100
Nano-Secondary® alpaca anti-mouse IgG2b, recombinant VHH, Alexa Fluor® 488 [CTK0105, CTK0106]	sms2bAF488-1-10; -100
Nano-Secondary® alpaca anti-mouse IgG2b, recombinant VHH, Alexa Fluor® 568 [CTK0105, CTK0106]	sms2bAF568-1-10; -100
Nano-Secondary® alpaca anti-mouse IgG2b, recombinant VHH, Alexa Fluor® 647 [CTK0105, CTK0106]	sms2bAF647-1-10; -100
Nano-Secondary® alpaca anti-mouse IgG3, recombinant VHH, Alexa Fluor® 647 [CTK0107]	sms3AF647-1-10; -100
<b>Nano-Secondaries (unconjugated)</b>	
Nano-Secondary® alpaca anti-human IgG/anti-rabbit IgG, recombinant VHH, for 2x Cys conjugation [CTK0101]	srbGCys2-1-500
Nano-Secondary® alpaca anti-rabbit IgG, recombinant VHH, for 2x Cys conjugation [CTK0102]	srbGCys2-2-500
Nano-Secondary® alpaca anti-mouse IgG1, recombinant VHH, for 2x Cys conjugation [CTK0103]	smsG1Cys2-1-500
Nano-Secondary® alpaca anti-mouse IgG1, recombinant VHH, for 2x Cys conjugation [CTK0104]	smsG1Cys2-2-500
Nano-Secondary® alpaca anti-mouse IgG2b, recombinant VHH, for 2x Cys conjugation [CTK0105]	smsG2bCys2-1-500
Nano-Secondary® alpaca anti-mouse IgG2b, recombinant VHH, for 2x Cys conjugation [CTK0106]	smsG2bCys2-2-500

For product details, information, and ordering visit [www.chromotek.com](http://www.chromotek.com).

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## Disclaimer

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

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