

Properties

Description	Monovalent, recombinant secondary single domain antibodies to rabbit IgG: Mixture of 2 alpaca monoclonal Nanobodies, Fab- and Fc-specific, Alexa Fluor® 647 conjugated
Product Type	Nano-Secondary®, secondary Nanobody (VHH)
Format	Alpaca single domain antibody, monovalent
Host	Alpaca-derived, recombinantly produced in bacteria
Target / Specificity	Fc-fragment of human IgG, Fab- and Fc-fragment of rabbit IgG (co-reactivity)
Cross-reactivity	No cross-reactivity to goat, guinea pig, mouse, rat, and sheep serum Cross-reactivity to macaque serum
Immunogen	Purified rabbit IgG
Clonality	Biclonal: mixture of 2 monoclonal Nanobodies
Clones	CTK0101 (VHH0244): Fc-fragment of human IgG, Fc-fragment of rabbit IgG CTK0102 (VHH0245): Fab-fragment of rabbit IgG
Affinity (Kd)	CTK0101: Kd = 0.2 nM, CTK0102: Kd = 1.2 nM
Conjugate	Site-directed conjugation to Alexa Fluor 647
Excitation/ Emission	Excitation max: 650 nm, Emission max: 665 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	0.5 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 -20°C/-4°F. Avoid freeze-thaw cycles. Aliquot upon arrival. Protect from light. Stable for 6 months.
Size	10 µL; 100 µL
RRID	AB_2827587

Nano-Secondary® alpaca anti-human IgG/anti-rabbit IgG, recombinant VHH, Alexa Fluor® 647 [CTK0101, CTK0102]

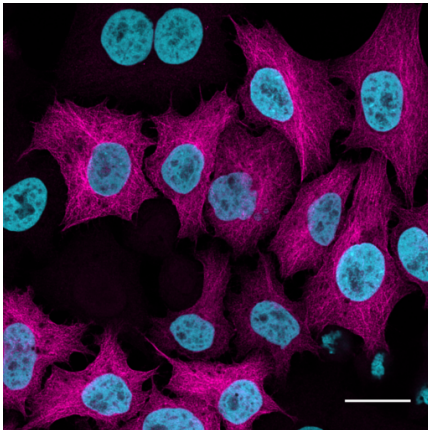


Product code: srbAF647-1

Applications	<p>Spin down material before use!</p> <p>IF/ICC: recommended starting dilution 1:1,000 (e.g. PBS supplemented with 4% BSA)</p> <p>Western blot: recommended starting dilution 1:1,000 (e.g. PBS supplemented with 0.075% Tween-20 and 5% skimmed milk)</p> <p><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.</p> <p><i>Note:</i> Image acquisition time may have to be optimized.</p>
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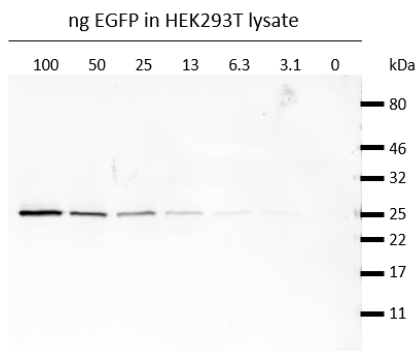
Tested Applications

Immunofluorescence



Immunostaining of HeLa cells stably expressing Tubulin-GFP at near-endogenous level with GFP antibody rabbit polyclonal [PABG1] (PABG1, ChromoTek) 1:1,000 and Nano-Secondary® alpaca anti-human IgG/anti-rabbit IgG, recombinant VHH, Alexa Fluor® 647 [CTK0101, CTK0102] 1:1,000 (magenta). Nuclei were detected with H2B-RFP and RFP-Booster Atto594 (cyan). Scale bar, 20 µm.

Western Blot



Western blot analysis of EGFP (EGFP-250, ChromoTek) added to HEK293T cell lysate. Detection with GFP antibody rabbit polyclonal [PABG1] (PABG1, ChromoTek) 1:1,000 and Nano-Secondary® alpaca anti-human IgG/anti-rabbit IgG, recombinant VHH, Alexa Fluor® 647 [CTK0101, CTK0102] 1:1,000.

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
Nano-Secondaries (unconjugated)	
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.

Contact

support@chromotek.com

ChromoTek GmbH
Am Klopferspitz 19
82152 Planegg-Martinsried
Germany
phone: +49 89 124 148 80
fax: +49 89 124 148 811

ChromoTek Inc.
62-64 Enter Lane
Islandia, NY 11749
USA
phone: 631 501 1058
fax: 631 501 1060

Disclaimer

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

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