

## Alpaca anti-rabbit IgG, recombinant VHH, Alexa Fluor® 647

Product code: srbAF647-1

<b>Description</b>	Monovalent, recombinant secondary single domain antibodies to rabbit IgG: Mixture of 2 alpaca monoclonal Nanobodies, Fab- and Fc-specific, Alexa Fluor 647 conjugated
<b>Product Type</b>	Secondary Nanobody
<b>Format</b>	Alpaca single domain antibodies, monovalent
<b>Host</b>	Alpaca-derived, recombinantly produced in bacteria
<b>Target/ Specificity</b>	This Nanobody mixture recognizes Fab and Fc fragments of rabbit IgG.
<b>Cross-Reactivity</b>	No cross-reactivity to mouse, rat, sheep, goat, and guinea pig IgG/ serum Cross-reactivity to human and macaque IgG/ serum
<b>Immunogen</b>	Purified rabbit IgG
<b>Clonality</b>	Biclonal: mixture of 2 monoclonal Nanobodies
<b>Clones</b>	VHH0244, VHH0245
<b>Conjugate</b>	Site-directed conjugation to Alexa Fluor 647
<b>Excitation/ Emission</b>	Excitation max: 650 nm, Emission max: 665 nm
<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>Affinity (K<sub>D</sub>)</b>	VHH0244: K <sub>D</sub> = 0.18 nM, VHH0245: K <sub>D</sub> = 1.2 nM
<b>DOL</b>	2 fluorophores per Nanobody
<b>Purity</b>	Recombinantly expressed and purified
<b>Form</b>	Buffered aqueous solution
<b>Storage Buffer</b>	10 mM HEPES pH 7.0, 500 mM NaCl, 5 mM EDTA, Preservative: 0.09% Sodium azide, Safety datasheet (SDS): <a href="#">Sodium azide SDS</a>
<b>Concentration</b>	0.5 g/L
<b>Size</b>	10 µL; 100 µL
<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>Applications</b>	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)  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.  Note: Image acquisition time may have to be optimized.

## Alpaca anti-rabbit IgG, recombinant V<sub>H</sub>H, Alexa Fluor<sup>®</sup> 647

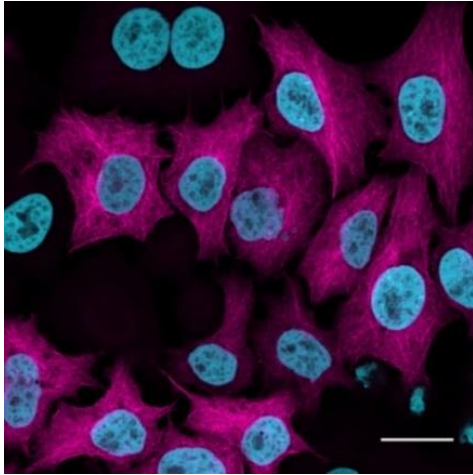
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### Tested applications

#### Immunofluorescence

Primary antibody: rabbit anti-GFP PABG1 antibody (PABG1, ChromoTek) 1:1,000

Secondary antibody: alpaca anti-rabbit IgG, recombinant V<sub>H</sub>H, Alexa Fluor 647 (srbAF647-1) 1:1,000

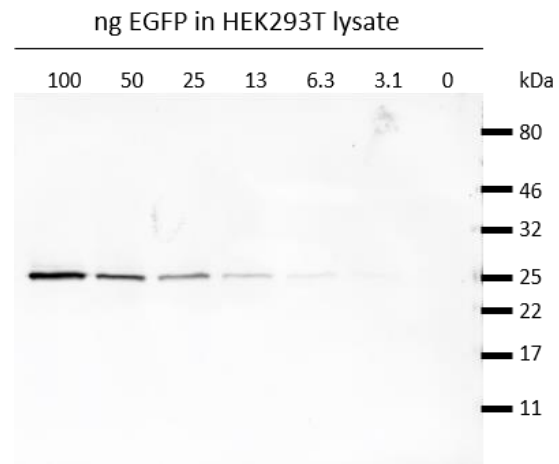


Immunostaining of HeLa cells stably expressing Tubulin-GFP at near-endogenous level with rabbit anti-GFP PABG1 antibody and alpaca anti-rabbit IgG, recombinant V<sub>H</sub>H, Alexa Fluor 647 (magenta). Nuclei were detected with H2B-RFP signal (cyan). Scale bar, 20  $\mu$ m.

#### Western Blot

Primary antibody: rabbit anti-GFP PABG1 antibody (PABG1, ChromoTek) 1:1,000

Secondary antibody: alpaca anti-rabbit IgG, recombinant V<sub>H</sub>H, Alexa Fluor 647 (srbAF647-1) 1:1,000



Western blot analysis of EGFP (EGFP-250, ChromoTek) added to HEK293T cell lysate. Detection with rabbit anti-GFP PABG1 antibody and alpaca anti-rabbit IgG, recombinant V<sub>H</sub>H, Alexa Fluor 647.

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

*ChromoTek is a registered trademark of ChromoTek GmbH. Nanobody is a registered trademark of Ablynx, a Sanofi company. Alexa Fluor is a registered trademark of Life Technologies Corporation, a part of Thermo Fisher Scientific Inc.*