### Alpaca anti-rabbit IgG, recombinant VHH, Alexa Fluor® 568

**Product code:** srbAF568-1

**Description:** Monovalent, recombinant secondary single domain antibodies to rabbit IgG: Mixture of 2 alpaca monoclonal Nanobodies, Fab- and Fc-specific, Alexa Fluor 568 conjugated

**Product Type:** Secondary Nanobody

**Format:** Alpaca single domain antibodies, monovalent

**Host:** Alpaca-derived, recombinantly produced in bacteria

**Target/ Specificity:** This Nanobody mixture recognizes Fab and Fc fragments of rabbit IgG.

**Cross-Reactivity:** No cross-reactivity to mouse, rat, sheep, goat, and guinea pig serum

**Clonality:** Biclonal: mixture of 2 monoclonal Nanobodies

**Clones:** VHH0244, VHH0245

**Conjugate:** Site-directed conjugation to Alexa Fluor 568

**Excitation/ Emission:** Excitation max: 578 nm, Emission max: 603 nm

**Synonyms:** Alpaca single domain antibody, VHH, Nanobody, binding domain of single domain antibody, Nano-antibody

**Validation:** Application validated for immunofluorescence and Western blotting

**Affinity (K\(_D\))**

VHH0244: K\(_D\) = 0.18 nM, VHH0245: K\(_D\) = 1.2 nM

**DOL**

2 fluorophores per Nanobody

**Purity**

Recombinantly expressed and purified

**Form**

Buffered aqueous solution

**Storage Buffer**

10 mM HEPES pH 7.0, 500 mM NaCl, 5 mM EDTA, Preservative: 0.09% Sodium azide, Safety datasheet (SDS): Sodium azide SDS

**Concentration**

0.5 g/L

**Size**

10 µL; 100 µL

**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.

**Applications**

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 VHH, Alexa Fluor® 568

Product code: srbAF568-1

Tested applications

**Immunofluorescence**

Primary antibody: rabbit anti-Ki67 antibodies
Secondary antibody: alpaca anti-rabbit IgG, recombinant VHH, Alexa Fluor 568 (srbAF568-1) 1:1,000

Primary antibody: rabbit anti-Lamin B1 antibodies
Secondary antibody: alpaca anti-rabbit IgG, recombinant VHH, Alexa Fluor 568 (srbAF568-1) 1:1,000

Immunostaining of Ki67 in HeLa cells with rabbit anti-Ki67 antibodies and alpaca anti-rabbit IgG, recombinant VHH, Alexa Fluor 568 (red). Scale bar, 20 µm.

Immunostaining of nuclear lamina in HeLa cells with rabbit anti-Lamin B1 antibodies and alpaca anti-rabbit IgG, recombinant VHH, Alexa Fluor 568 (red). Scale bar, 2 µm.

Confocal and gated STED images were acquired with a Leica TCS SP8 STED 3X microscope, pulsed depletion with a 775 nm laser. Images were recorded at the Core Facility Bioimaging at the Biomedical Center, LMU Munich.

**Western Blot**

Primary antibody: rabbit anti-GFP PABG1 antibody (PABG1, ChromoTek) 1:1,000
Secondary antibody: alpaca anti-rabbit IgG, recombinant VHH, Alexa Fluor 568 (srbAF568-1) 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 VHH, Alexa Fluor 568.

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.