

## Alpaca anti-mouse IgG2b, Fc-specific recombinant VHH, Alexa Fluor® 488

Product code: sms2bAF488-1

<b>Description</b>	Monovalent, recombinant secondary single domain antibodies to mouse IgG2b: Mixture of 2 alpaca monoclonal Nanobodies, Fc-specific, Alexa Fluor 488 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 the Fc fragment of mouse IgG2b.
<b>Cross-reactivity</b>	No cross-reactivity to rabbit, rat, sheep, goat, guinea pig, human, and macaque serum
<b>Immunogen</b>	Purified mouse IgG2b
<b>Clonality</b>	Biclonal: mixture of 2 monoclonal Nanobodies
<b>Clones</b>	VHH0275, VHH0288
<b>Conjugate</b>	Site-directed conjugation to Alexa Fluor 488
<b>Excitation/ Emission</b>	Excitation max: 490 nm, Emission max: 525 nm
<b>Synonyms</b>	Alpaca single domain antibody, V <sub>H</sub> H, Nanobody, binding domain of single domain antibody, Nano-antibody
<b>Validation</b>	Application validated for immunofluorescence and Western blotting  Determination of cross-reactivity, subclass specificity, sequence, affinity, melting point, and degree of labeling (DOL)
<b>Affinity (K<sub>D</sub>)</b>	VHH0275: K <sub>D</sub> = 5.0 nM, VHH0288: K <sub>D</sub> = 0.2 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.

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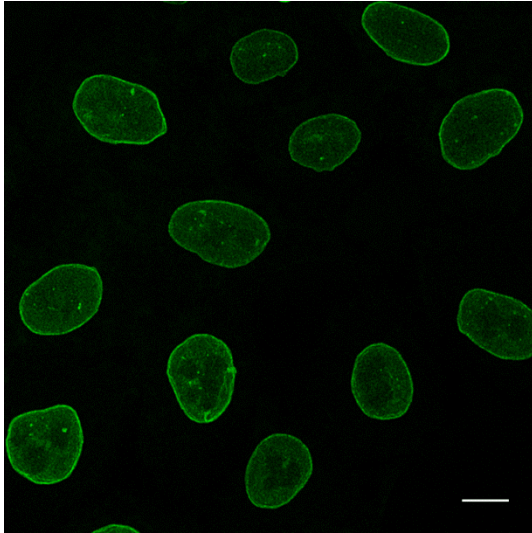
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## Tested applications

### Immunofluorescence

Primary antibody: mouse anti-Lamin A/C antibody

Secondary antibody: alpaca anti-mouse IgG2b, Fc-specific recombinant V<sub>H</sub>H, Alexa Fluor 488 (sms2bAF488-1)  
1:1,000

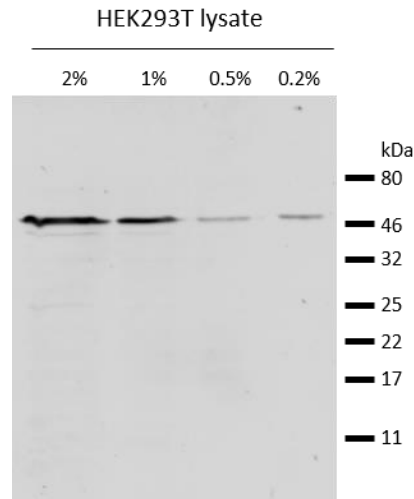


Immunostaining of Lamin in HeLa cells with mouse anti-Lamin A/C antibody and alpaca anti-mouse IgG2b, Fc-specific recombinant V<sub>H</sub>H, Alexa Fluor 488 (green). Scale bar, 10  $\mu$ m.

### Western Blot

Primary antibody: mouse anti- $\beta$ -Tubulin antibody

Secondary antibody: alpaca anti-mouse IgG2b, Fc-specific recombinant V<sub>H</sub>H, Alexa Fluor 488 (sms2bAF488-1)  
1:1,000



Western blot analysis of endogenous  $\beta$ -Tubulin in HEK293T cell lysate. Detection with mouse anti- $\beta$ -Tubulin antibody and alpaca anti-mouse IgG2b, Fc-specific recombinant V<sub>H</sub>H, Alexa Fluor 488.

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

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