

Spot-Label® Alexa Fluor® 488

Product code: ebAF488

Properties

Description	Anti-Spot-Tag® VHH (bivalent) conjugated to Alexa Fluor® 488.
Target / Specificity	Spot-Tag® sequence (PDRVRAVSHWSS). Compatible with N- and C-terminal tagging, internal tagging must be tested case by case.
Species Specificity	N/a
GenBank Accession Number	N/a
GeneID (NCBI)	N/a
Product Type	Primary antibody, bivalent
Format	Recombinant alpaca single domain antibody, bivalent
Source	Alpaca, recombinantly produced
Isotype / Subclass	N/a
Clonality	Monoclonal
Clone	CTK0216
RRID	AB_2889374
Immunogen	Beta-catenin, engineered epitope
Conjugate	Alexa Fluor® 488
Excitation/ Emission	Excitation max: 490 nm, Emission max: 525 nm
Degree of Labeling (DOL)	1 fluorophore per bivalent Nanobody, site-directed conjugation
Purification Method	Recombinantly expressed and purified
Form	Buffered aqueous solution
Concentration	500 µg/mL
Calculated MW	30.3 kDa
Tested Applications	IF
Positive Controls	IF: HeLa cells transfected with Spot-Tag®-Lamin B1
Cited Applications	
Recommended Dilutions	IF/ICC: 1:800
Storage Buffer	PBS, 5 mM EDTA, preservative: 0.09 % sodium azide Safety datasheet (SDS): sodium azide

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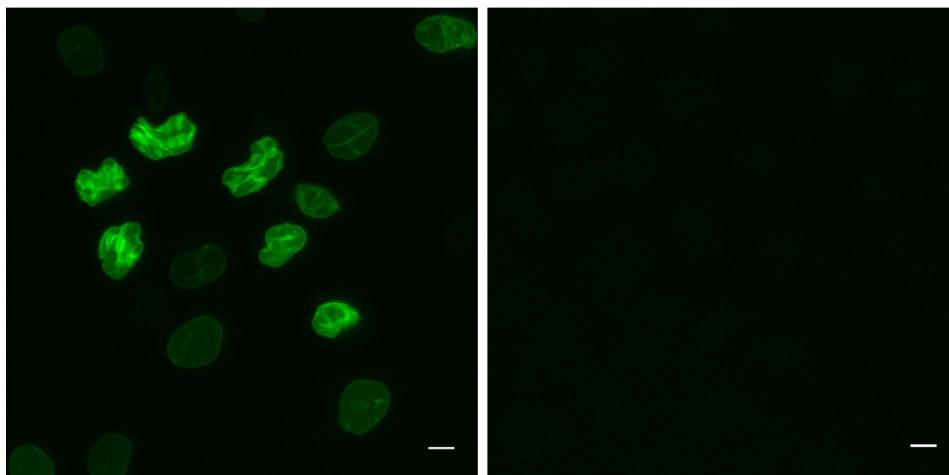
Storage Conditions	Aliquot upon receipt and store at -20°C/-4°F. Avoid freeze-thaw cycles. Protect from light.
Stability	Stable for 6 months at -20°C/-4°F after shipment.
Shipment	Shipped on ice
Size	10 µL; 50 µL
Synonyms	VHH, Nanobody, alpaca single domain antibody, binding domain of single domain antibody, Nano-antibody

Selected validation data

Immunofluorescence

+ Spot-Tag®-Lamin B1

- Spot-Tag®-Lamin B1



HeLa cells transiently expressing Spot-Tag®-Lamin B1 were immunostained with Spot-Label® Alexa Fluor® 488 (ebAF488, 1:800). Scale bar, 10 µm.

Immunofluorescence protocol

Fixation

- Fix cells seeded on coverslips in 3.7% formaldehyde in PBS for 10 min at room temperature.
Note: Always prepare a fresh formaldehyde dilution.
- Wash samples three times with PBS. Do not store fixed cells.

Permeabilization

- Add 0.5% Triton-X-100 in PBS to samples and incubate for 5 min at room temperature.
Note: Alternatively, use ice-cold 100% methanol for permeabilization.
- Wash samples twice with PBS.

Blocking

- Add 4% BSA in PBS to samples and incubate for 20 min at room temperature.
Note: If necessary, use additional blocking reagents (e.g. 10% normal serum in PBS or Image-iT™ FX Signal Enhancer) and extend the blocking time up to 60 min.

Incubation

- Dilute Spot-Label 1:800 in 4% BSA in PBS and incubate overnight at +4°C/+40°F.
*Note: For multiplexing protocols, you can combine Spot-Label with another primary or secondary antibody.
Optional: Incubate for 1-2 hours at room temperature instead of overnight at +4°C/+40°F.*
- Wash samples three times for 5-10 min in PBS.
- If required, counterstain with DNA fluorescent dyes, e.g. DAPI in PBS. Proceed with imaging directly or mount samples, if necessary.

Mounting

- Rinse sample briefly in water to prevent salt crystal formation.
- Mount in ProLong™ Diamond Antifade Mountant or other mounting media with anti-fading agents.

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Product overview and related products

Spot-Tag® toolbox	Product code
Spot-Trap® Agarose	eta-10; -20; -100
Spot-Trap® Agarose Kit	etak-20
Spot-Trap® Magnetic Agarose	etma-10; -20; -100
Spot-Trap® Magnetic Agarose Kit	etmak-20
Spot-Trap® Magnetic Particles M-270	etd-10; -20; -100
Spot-Trap® Magnetic Particles M-270 Kit	etdk-20
iST Spot-Trap® Kit (for IP/MS)	etak-iST-8
Binding Control Agarose	bab-20
Binding Control Magnetic Agarose	bmab-20
Spin columns	sct-10; sct-20; sct-50
Spot VHH, recombinant binding protein (bivalent)	etb-250
Spot-Cap®	eca-2
Spot-peptide	ep-1; -10
Spot-Cap® and peptide	eca-ep
Spot-Label® Alexa Fluor® 488	ebAF488-10; -50
Spot-Label® Alexa Fluor® 568	ebAF568-10; -50
Spot-Label® Alexa Fluor® 647	ebAF647-10; -50
Spot-Label® ATTO 488	eba488-10; -50
Spot-Label® ATTO 594	eba594-10; 50
pSpot1 (<i>E. coli</i> , Spot N-term., Kan., high expression)	ev-1
pSpot2 (<i>E. coli</i> , Spot C-term., Kan., high expression)	ev-2
pSpot3 (<i>E. coli</i> , Spot C-term., Amp., low expression)	ev-3
pSpot4 (<i>E. coli</i> , Spot N-term., Amp., low expression)	ev-4
pSpot5 (<i>S. cerevisiae</i> , Spot N-term., Leu, CEN, low expression)	ev-5
pSpot6 (<i>S. cerevisiae</i> , Spot C-term., Leu, CEN, low expression)	ev-6
pSpot7 (<i>S. cerevisiae</i> , Spot N-term., Leu, 2μ, high expression)	ev-7
pSpot8 (<i>S. cerevisiae</i> , Spot C-term., Leu, 2μ, high expression)	ev-8
pSpot Spot-Tag®-Actin (vector for expression of Spot-Tag® β-actin fusion protein in mammalian cells)	ev-31
pSpot2 GFP-Spot-Tag® (vector for expression of GFP-Spot-Tag® fusion protein in <i>E. coli</i>)	ev-32
pSpot8 GFP-Spot-Tag® (vector for expression of GFP-Spot-Tag® fusion protein in <i>S. cerevisiae</i>)	ev-33

For product details, information, and ordering visit www.chromotek.com and www.ptglab.com.

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Disclaimer

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

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