

## Spot V<sub>H</sub>H, recombinant binding protein

Product code: etb-250

<b>Relevance</b>	The Spot-Tag® is a 12-amino acid epitope tag that is specifically recognized by Spot V <sub>H</sub> H, a high-affinity recombinant alpaca antibody fragment. The Spot-Tag system is useful for the purification of Spot-Tag fusion proteins and their analysis using immunoprecipitation, immunofluorescence, and super-resolution microscopy. Spot V <sub>H</sub> H can be used for Western blot, immunofluorescence, immunoprecipitation, and ELISA analysis of Spot-Tag fusion proteins. Importantly, Spot V <sub>H</sub> H can be functionalized by the end user using the sortase tag (LPETG) at the C-terminus of Spot V <sub>H</sub> H or via NHS-chemistry.
<b>Specificity</b>	This antibody fragment is reactive against the Spot-Tag (PDRVRAVSHWSS).
<b>Description</b>	Recombinant alpaca single-domain antibody, unconjugated, for the analysis of Spot-Tag fusion proteins.
<b>Product Type</b>	Primary antibody
<b>Isotype</b>	V <sub>H</sub> H (Nanobody), alpaca monoclonal, bivalent
<b>Purity</b>	Affinity-purified antibody fragment
<b>Form</b>	Liquid
<b>Storage Buffer</b>	Buffered aqueous solution (25 mM TAPS pH 8.5, 500 mM NaCl, 5 mM EDTA) Preservative: 0.09% Sodium Azide Safety datasheet (SDS) for this product: <a href="#">Sodium Azide SDS</a>
<b>Concentration</b>	1 g/L
<b>Size</b>	250 µg
<b>Storage instructions</b>	Shipped at +4°C. Store at +4°C. Stable for one year.
<b>Applications</b>	<ul style="list-style-type: none"><li>• <b>Western blot:</b> recommended starting dilution 1:1000, incubate at 2-8 °C overnight; use PBS (or TBS) + 0.075 % Tween-20 as wash buffer</li><li>• <b>Immunofluorescence:</b> recommended starting dilution 1:1,000-1:10,000, incubate at 2-8 °C overnight.</li><li>• <b>ELISA:</b> recommended starting dilution 1:1000</li><li>• <b>Immunoprecipitation:</b> an end user may conjugate Spot V<sub>H</sub>H to a resin of interest (agarose or similar) for the use in immunoprecipitation. Please follow the manufacturer's instructions for the resin of choice.</li></ul>

*Note: The optimal dilution depends on the application and should be determined by the end user.*

*Note: For a secondary antibody, we recommend the use of anti-Llama IgG antibody, HRP-conjugated (Bethyl Laboratories Inc.; A160-100P) at a dilution of 1:1,000 to 1:2,500.*

*Note: Spot V<sub>H</sub>H can be detected using an anti-His-tag antibody.*

*Note: Optionally, an end user may conjugate Spot V<sub>H</sub>H to an NHS-activated fluorophore of interest.*

*Note: Spot V<sub>H</sub>H contains a sortase tag (sequence: LPETG) at its C-terminus. The sortase tag allows the site-directed, covalent coupling of fluorophores or similar to the C-terminus of Spot V<sub>H</sub>H using sortase enzyme. The sortase reaction will lead to the loss of the Spot V<sub>H</sub>H His-tag.*

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