

Datasheet: HCA406

**BATCH NUMBER 171164**

<b>Description:</b>	ANTI SpyTag
<b>Specificity:</b>	SPYTAG
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD51767kg
<b>Isotype:</b>	IgG
<b>Quantity:</b>	0.1 mg

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
ELISA	▪			1/10,000 - 1/20,000
Western Blotting	▪			1/5,000 - 1/10,000

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Synthetic Peptide
<b>Product Form</b>	Recombinant chimeric human/rabbit IgG antibody (lambda light chain) selected from the HuCAL phage display library and expressed in a human cell line. In this antibody, the VH-CH1 regions and light chains are human while the Fc region is derived from rabbit IgG. This antibody is supplied as a liquid.
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A
<b>Source</b>	HKB-11
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )

<b>Approx. Protein Concentrations</b>	Antibody concentration 1.0 mg/ml
<b>Immunogen</b>	SpyTag version 1 and 2
<b>Specificity</b>	<p><b>Anti-SpyTag Antibody, clone AbD51767kg</b> is a chimeric antibody comprising a human Fab portion and a rabbit Fc domain, which specifically binds to SpyTag protein with high affinity. SpyTag is a 13 amino acid peptide tag deriving from the second immunoglobulin-like collagen adhesin domain (CnaB2) from the fibronectin binding protein (FbaB) of <i>Streptococcus pyogenes</i> and mainly used for protein ligation in combination with the SpyCatcher (<a href="#">Zakeri et al. 2012</a>).</p> <p>Anti-SpyTag Antibody binds to the original SpyTag as well as the optimized derivatives SpyTag2 (<a href="#">Keeble et al. 2017</a>) and SpyTag3 (<a href="#">Keeble et al. 2019</a>). It recognizes the SpyTag variants in uncoupled form when fused to both N-terminal or C-terminal end of the target protein. The anti-SpyTag Antibody has been shown to not react with any SpyCatcher variants nor with <i>E. coli</i> lysate. Only residual detection of SpyTag ligated to SpyCatchers was observed in ELISA.</p>
<b>Storage</b>	<p>This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Acknowledgements</b>	This product and/or its use is covered by claims of U.S. patents, and/or pending U.S. and non-U.S. patent applications owned by or under license to Bio-Rad Laboratories, Inc. See <a href="http://bio-rad.com/en-us/trademarks">bio-rad.com/en-us/trademarks</a> for details.
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/HCA406">https://www.bio-rad-antibodies.com/SDS/HCA406</a> 10040
<b>Regulatory</b>	For research purposes only
<b>Technical Advice</b>	For further information about recombinant antibodies incorporating SpyTag technology visit <a href="#">SpyTag and SpyCatcher Products</a> .

## Related Products

### Recommended Secondary Antibodies

Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

### Recommended Positive Controls

[HuCAL Fab-F-Spy2-H NEGATIVE CONTROL ANTIBODY \(TZA003\)](#)

[SpyTag3 PEPTIDE \(BLP086\)](#)

## Recommended Useful Reagents

[ANTI SpyCatcher \(HCA379\)](#)

[HISPEC ASSAY DILUENT \(BUF049A\)](#)

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