

## Datasheet: TZC013

**BATCH NUMBER 157257**

<b>Description:</b>	RABBIT IgG-FcSpyCatcher3
<b>Name:</b>	RABBIT IgG-FcSPYCATCHER3
<b>Format:</b>	Catcher
<b>Product Type:</b>	Recombinant Protein
<b>Quantity:</b>	0.5 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
Immunoassay	▪			

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>	Protein/peptide tag
<b>Product Form</b>	FcSpyCatcher3 purified recombinant protein, fused to the hinge region, CH2, and CH3 of rabbit IgG - liquid
<b>Preparation</b>	Recombinant protein expressed in mammalian cell line and purified by affinity chromatography
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.1% ProClin 950
<b>Approx. Protein Concentrations</b>	80 $\mu$ M (6.1 mg/ml)

**Product Information** **Rabbit IgG-FcSpyCatcher3** (rIgG-FcSpyC3) contains a SpyCatcher3 ([Keeble et al. 2019](#)) fused to the hinge region, CH2 and CH3 of rabbit IgG ([Hentrich et al. 2020](#)), resulting in a 76.1 kDa protein for the disulfide-bridged dimer. Each SpyCatcher3 subunit can form a stable covalent isopeptide bond with a second protein that includes a SpyTag.

The reaction occurs spontaneously on mixing, is rapid, irreversible, high-yielding and shows good specificity. The reaction is robust at pH 5 to 8, at temperatures from +4°C to +37°C, in various buffer conditions (Ca<sup>2+</sup>/Mg<sup>2+</sup> not needed) and in the presence of detergents. The reaction also occurs inside cells (*in vivo*). Since the speed of the coupling reaction is concentration dependent, it is recommended to use rblgG-FcCatcher3 undiluted.

Rabbit IgG-FcSpyCatcher3 is compatible with Bio-Rad's recombinant HuCAL® antibodies with a SpyTag2 at the C-terminus of the heavy chain.

[Download FcSpyCatcher coupling protocol](#)

[View all available Catchers](#)

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**Protein Molecular Weight**

Predicted 76132 Da

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**Purity**

≥90% determined by SDS-PAGE under reducing conditions and visualized by coomassie blue staining

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**Instructions For Use**

[View FcSpyCatcher Coupling Protocol](#)

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**Storage**

Store at -20°C only.  
Storage in frost-free freezers is not recommended.  
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the protein. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Guarantee**

12 months from date of despatch

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**Acknowledgements**

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HuCAL® is a registered trademark of MorphoSys AG

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**Health And Safety Information**

Material Safety Datasheet documentation #20480 available at:  
<https://www.bio-rad-antibodies.com/SDS/TZC013>  
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**Licensed Use**

For *in vitro* research purposes. Any re-sale in any form or any other commercial application needs a written agreement with Bio-Rad.

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**Regulatory**

For research purposes only

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)

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