

Datasheet: TZC009B

Description:	HUMAN IgG1-FcSpyCatcher3:Biotin
Name:	HUMAN IgG1-FcSPYCATCHER3
Format:	Catcher-Biotin
Product Type:	Recombinant Protein
Quantity:	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 <u>www.bio-</u>							
	rad-antibodies.com/proto	1	Na	Not Doto main od	Currented Dilution			
	Immunoassay	Yes	No	Not Determined	Suggested Dilution			
	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				or use in their own			
	system using appropriate negative/positive controls.							
Target Species	Protein/peptide tag							
Product Form	Purified recombinant protein conjugated to Biotin - liquid							
Preparation	Recombinant protein expressed in a mammalian cell line and purified by affinity chromatography							
Source	HKB-11							
Buffer Solution	Phosphate buffered saline							
Preservative Stabilisers	0.0095% MIT							
Approx. Protein Concentrations	80 μM (6.2 mg/ml)							
Product Information	Human IgG1-FcSpyCat 2019) fused to the hinge resulting in a 77.2 kDa p can form a stable covale	region, C rotein for	H2 and C the disulfi	H3 of human IgG1 (<u>H</u> de-bridged dimer. Eac	<u>entrich <i>et al.</i> 2020</u>), h SpyCatcher3 subunit			

	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 (Ca2 ⁺ /Mg2 ⁺ not needed) and in the presence of detergents. The reaction also occurs inside cells (<i>in vivo</i>). Since the speed of the coupling reaction is concentration dependent, it is recommended to use hlgG1-FcCatcher3 undiluted.				
	Human IgG1-FcSpyCatcher3 is compatible with Bio-Rad's recombinant HuCAL antibodies with a SpyTag2 at the C-terminus of the heavy chain. It is available purified (<u>TZC009</u>) or conjugated to biotin (<u>TZC009B</u>).				
	Download FcSpyCatcher coupling protocol				
	View all available Catchers				
Protein Molecular Weight	Predicted molecular weight of the purified Catcher is 77166 Da The molecular weight specified excludes conjugation and will vary upon conjugation depending on the molecular weight of the label				
Purity	≥90% determined by SDS-PAGE under reducing conditions and visualized by coomassie blue staining				
Instructions For Use	View FcSpyCatcher Coupling Protocol				
References	 Keeble, A.H. <i>et al.</i> (2019) Approaching infinite affinity through engineering of peptide- protein interaction. <u>Proc Natl Acad Sci U S A. 10: 116 (52): 26523-33.</u> Hentrich, C. <i>et al.</i> (2021) Periplasmic expression of SpyTagged antibody fragments enables rapid modular antibody assembly. <u>Cell Chem Biol. 28 (6): 813-824.e6.</u> 				
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.				
Guarantee	12 months from date of despatch				
Acknowledgements	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 bio-rad.com/en-us/trademarks for details.				
Health And Safety Information	Material Safety Datasheet documentation #20480 available at: https://www.bio-rad-antibodies.com/SDS/TZC009B 20480				
Licensed Use	For <i>in vitro</i> research purposes. Any re-sale in any form or any other commercial application needs a written agreement with Bio-Rad.				

Related Products

Recommended Useful Reagents

HUMAN IgG1-FcSpyCatcher3 (TZC009) SpyTag3 PEPTIDE (BLP086)

North & South	Tel: +1 800 265 7376	Worldwide	Tel: +44 (0)1865 852 700	Europe	Tel: +49 (0) 89 8090 95 21
America	Fax: +1 919 878 3751		Fax: +44 (0)1865 852 739		Fax: +49 (0) 89 8090 95 50
	Email: antibody_sales_us@bio-rad.com		Email: antibody_sales_uk@bio-rad.com		Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M417424:230328'

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