

Datasheet: TZC037

Description:	HUMAN IgG1-YTE-FcSpyCatcher3
Name:	HUMAN IgG1-YTE-FcSPYCATCHER3
Format:	Catcher
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-rad-antibodies.com/protocols</u> .						
		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.						
Target Species	Protein/peptide tag						
Product Form	FcSpyCatcher3 purified recombinant protein, fused to the hinge region, CH2, and CH3 of human IgG1 - liquid						
Preparation	Recombinant protein expressed in mammalian cell line and purified by affinity chromatography						
Source	HKB11						
Buffer Solution	Phosphate buffered saline						
Preservative Stabilisers	0.0095% MIT						
Approx. Protein Concentrations	80 μM (6.2 mg/ml)						
Product Information	Human IgG1-YTE-FcSp SpyCatcher3 (<u>Keeble <i>et</i></u> (<u>Hentrich <i>et al</i>. 2020</u>), re	<u>al. 2019)</u>	fused to t	he hinge region, CH2	and CH3 of human IgG1		

T256E (YTE) triple mutation in its Fc region which has been shown to increase the half life of antibodies containing this mutation by 4-5 fold compared to wild-type antibodies.

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 (Ca2⁺/Mg2⁺ 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 hlgG1-YTE-FcCatcher3 undiluted.

Human IgG1-YTE-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

Protein Molecular Weight	Predicted 77332 Da	
Purity	≥90% determined by SDS-PAGE under reducing conditions and visua blue staining	lized by coomassie
Instructions For Use	View FcSpyCatcher Coupling Protocol	
Storage	Store at -20°C only. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and denature the protein. Should this product contain a precipitate we reco 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 non-U.S. patent applications owned by or under license to Bio-Rad La 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/TZC037 20480	
Licensed Use	For <i>in vitro</i> research purposes. Any re-sale in any form or any other co application needs a written agreement with Bio-Rad.	ommercial
Regulatory	For research purposes only	

Related Products

Recommended Useful Reagents

RECOMBINANT HUMAN IgG1 YTE KAPPA ALLOTYPE G1m3 (HCA413) HUMAN IgG1-FcSpyCatcher3 (TZC009) HUMAN IgG1-N297Q-FcSpyCatcher3 (TZC026) HUMAN IgG1-LALA-FcSpyCatcher3 (TZC027) 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 'M432863:240912'

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