Datasheet: TZC013

BATCH NUMBER 157257

Description:	RABBIT IgG-FcSpyCatcher3
Name:	RABBIT IgG-FcSPYCATCHER3
Format:	Catcher
Product Type:	Recombinant Protein
Quantity:	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.

	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 rabbit IgG - liquid

Preparation

Recombinant protein expressed in mammalian cell line and purified by affinity chromatography

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.1% ProClin 950

Approx. Protein Concentrations

80 µM (6.1 mg/ml)

Product Information

Rabbit IgG-FcSpyCatcher3 (rbIgG-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 ($Ca2^+$/$Mg2^+$ 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 rbIgG-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
Protein Molecular Weight	Predicted 76132 Da
Purity	≥90% determined by SDS-PAGE under reducing conditions and visualized by coomassie blue staining
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 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
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