

Datasheet: LNK024RPE

BATCH NUMBER 165997

Description:	LYNX RAPID RPE ANTIBODY CONJUGATION KIT		
Name:	RPE CONJUGATION KIT		
Format:	Kit		
Product Type:	Conjugation Kit		
Quantity:	3 CONJUGATIONS for 10μg antibody		

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
Conjugation	-			

We recommend that for each conjugation the user determines the best antibody:conjugate ratio.

Product Information

LYNX Rapid RPE Anitbody Conjugation Kit® enables the rapid conjugation of a pre-prepared lyophilized mixture containing R-Phycoerythrin (RPE) label to an antibody or protein. Activation of proprietary reagents within the antibody-label solution results in directional covalent bonding of RPE to the antibody.

The LYNX Rapid Conjugation kit® can be used to label small quantities of antibody/protein at near neutral pH, allowing a high conjugation efficiency with 100% antibody recovery.

Reagents In The Kit

- 3 Vials of 10ug LYNX lyophilized RPE mix
- 1 Vial LYNX Modifier reagent
- 1 Vial LYNX Quencher reagent

Preparing The Antibody

The following buffer solutions are recommended for preparing the antibody:

10-50mM amine-free buffer (e.g HEPES, MES, MOPS and phosphate) pH range 6.5-8.5, although moderate concentrations of Tris buffer (<20mM) may be tolerated.

If possible, avoid buffers containing nucleophilic components such as primary amines and thiols (e.g. thiomersal/thimerosal) since they may react with LYNX

chemicals. Azide (0.02-0.1%), EDTA, up to 50% Glycerol and common non-buffering salts and sugars have little or no effect on conjugation efficiency.

Due to the large size of RPE (240kDa), the quantity of RPE is in slight molar excess. Approximately 10ug of IgG will give a 1:1 molar ratio of antibody:RPE. For optimal results the antibody should be at a concentration of 1mg/ml, with a maximum volume of 10ul and a maximum antibody amount of 10ug. Antibody at a concentration of greater than 1mg/ml requires dilution. Antibody below 1mg/ml can still be used as long as the maximum volume is not exceeded. Using less than the recommended amount of antibody may result in unbound label, but this will be removed during subsequent application wash steps. Antibody below 0.5mg/ml should be concentrated before use with the kit.

Instructions For Use

- 1. To the antibody sample add 1ul of the Modifier reagent for every 10ul of antibody and mix gently.
- 2. Pipette the mixed antibody-modifier sample directly onto the LYNX lyophilized mix and gently pipette up and down twice to resuspend.
- 3. Replace cap onto vial and incubate in the dark at room temperature (20-25°C) for 3 hours, or overnight if preferred.
- 4. After incubation, add 1ul of Quencher reagent for every 10ul of antibody used. Leave to stand for 30 minutes before use.

References

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- 2. Campbell, J.E. *et al.* (2010) Cellular regulation of blood coagulation: a model for venous stasis. <u>Blood. 116: 6082-91.</u>
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- 4. Dutertre, C.A. *et al.* (2008) A novel subset of NK cells expressing high levels of inhibitory FcgammaRIIB modulating antibody-dependent function. <u>J Leukoc Biol. 84:</u> 1511-20.
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- 10. Attatippaholkun, N. et al. (2017) Dengue Virus and Its Relation to Human Glycoprotein

IIb/IIIa Revealed by Fluorescence Microscopy and Flow Cytometry. Viral Immunol. 30 (9):

- 11. Botha, J. et al. (2022) Lipid-based strategies used to identify extracellular vesicles in flow cytometry can be confounded by lipoproteins: Evaluations of annexin V, lactadherin, and detergent lysis. J Extracell Vesicles. 11 (4): e12200.
- 12. Jax, E. et al. (2023) Evaluating Effects of AIV Infection Status on Ducks Using a Flow Cytometry-Based Differential Blood Count. Microbiol Spectr. 11 (4): e0435122.
- 13. Haach, V. et al. (2023) A polyvalent virosomal influenza vaccine induces broad cellular and humoral immunity in pigs. Virol J. 20 (1): 181.

Storage

This kit contains lyophilized hygroscopic components that are moisture-sensitive. This kit is shipped under ambient conditions with silica packets to avoid exposure to moisture. On receipt, Bio-Rad recommend that the kit is stored at -20°C and protected from moisture. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing. Before opening, allow the components to reach room temperature to minimize condensation.

Guarantee

12 months from date of despatch

Health And Safety Information

Material Safety Datasheet documentation #10531 #10546 #10548 available at:

https://www.bio-rad-antibodies.com/SDS/LNK024RPE

Lyophilized RPE Mix (10531) Modifier Reagent (10546) Quencher Reagent (10548)

Licensed Use

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