

Product Datasheet

Lightning-Link (R) R-PE Antibody Labeling Kit 703-0003

Unit Size: 5 x 600ug Reaction

Store at -20C.

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703-0003

Lightning-Link (R) R-PE Antibody Labeling Kit

Product Information	
Unit Size	5 x 600ug Reaction
Concentration	Concentration is not relevant for this product. Please see the protocols for proper use of this product.
Storage	Store at -20C.
Conjugate	R-Phycoerythrin
Buffer	
Product Description	
Description	<p>Lightning-Link antibody labeling kits enable the direct labeling of antibodies, proteins, peptides or other biomolecules for use in R&D applications, drug discovery and the development of diagnostic kits (See protocol for further information).</p> <p>Our R-PE antibody labeling kit enables the direct conjugation of R-PE to any biomolecule with an available amine group. The researcher simply pipettes the antibody or other biomolecule into the vial of Lightning-Link R-PE and incubates for 3 hours.</p> <p>Features Quick and easy to use Benefits Save time, no special knowledge required No separation steps 100% recovery - no antibody/protein loss Can be used in a wide range of applications Flexible Freeze dried Ships at ambient temperature, long shelf-life Fully scalable (10 ug to 1 g or more) Easy transfer from R&D to manufacturing Stringently QC tested Consistent high quality, excellent batch-to-batch reproducibility Large number of labels available Experimental flexibility Reliable: nearly 300 references Successfully used in many fields of research</p> <p>R-Phycoerythrin (R-PE) is a fluorescent protein from the phycobiliprotein family, present in red algae and cryptophytes. It has three maximal absorbance values of 498, 544 and 566nm (the optimal will depend on the application), and it has a strong emission peak at 580nm. RPE is closely related to B-Phycoerythrin (B-PE) and these are the most intense fluorescent phycobiliproteins providing an orange fluorescence.</p> <p>Learn more about Lightning-Link™ Conjugation Kits by reading FAQs</p> <p>For more information please check out these useful links! Antibody Labeling Guide Antibody Conjugation Illustrated Assay</p>
Kit Components	1 or 3 or 5 glass vial(s) of Lightning-Link mix, 1 vial of LL-Modifier reagent, 1 vial of LL-Quencher reagent
Notes	<p>This product is manufactured by Abcam and distributed by Novus Biologicals.</p> <p>This product is for research use only and is not approved for use in humans or in clinical diagnosis. This product is guaranteed for 1 year from date of receipt and this statement overrides any mentioned guarantee period on the limitations section of this products datasheet. Please contact technical@novusbio.com with questions.</p>

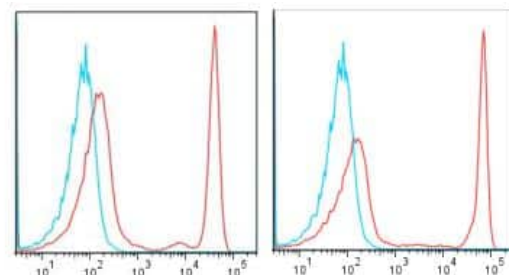
Product Application Details



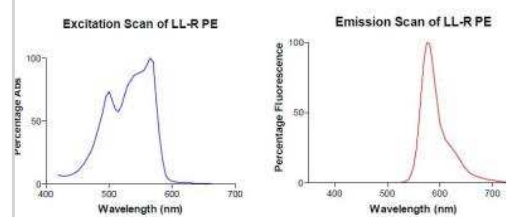
Applications	Flow Cytometry
Recommended Dilutions	Flow Cytometry
Application Notes	By circumventing the desalting or dialysis steps that commonly interrupt traditional antibody conjugation procedures, LightningLink technology can be used to label both small (e.g. 10 ug) and large quantities of primary antibodies with ease. Batch-to-batch variation upon scale up is minimal as the process is so simple, and recoveries are always 100%. This kit is supplied with 5 vials, each suitable for labeling up to 600 ug of antibody.

Images

Flow Cytometry: Lightning-Link R-PE Antibody Labeling Kit [703-0003] - Mouse anti-human CD8 was conjugated with R Phycoerythrin using Lightning-Link kit. The conjugated antibody was then used to stain human peripheral blood lymphocytes, followed by analysis with flow cytometry. (Blue line - negative control; red line - positive staining).



Lightning-Link R-PE Antibody Labeling Kit [703-0003]



Absorbance Max (nm)	Emission Max (nm)	Extinction Coefficient (cm ² M ⁻¹)	Fluorescent Colour	Stokes Shift
535	575	2 x 10 ⁶	Orange	40

Publications

Jelsma T, van der Wal FJ, Fijten H et al. Pre-screening of crude peptides in a serological bead-based suspension array. *J Virol Methods*. 2017-01-01 [PMID: 28545817]

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Tafalla C, Gonzalez L, Castro R, Granja AG. B Cell-Activating Factor Regulates Different Aspects of B Cell Functionality and Is Produced by a Subset of Splenic B Cells in Teleost Fish. *Front Immunol*. 2017-03-15 [PMID: 28360916]

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Charlarmroj R, Makornwattana M, Grant IR et al. Validation of a high-throughput immunobead array technique for multiplex detection of three foodborne pathogens in chicken products. *Int J Food Microbiol*. 2016-05-02 [PMID: 26950032]

Gao Y, Pallister J, Lapierre F et al. A rapid assay for Hendra virus IgG antibody detection and its titre estimation using magnetic nanoparticles and phycoerythrin. *J Virol Methods*. 2015-09-15 [PMID: 26141730]

Frederick JR, Fitzpatrick JR 3rd, McCormick RC et al. Stromal Cell-Derived Factor-1alpha Activation of Tissue-Engineered Endothelial Progenitor Cell Matrix Enhances Ventricular Function After Myocardial Infarction by Inducing Neovascuogenesis. *Circulation*. 2010-09-14 [PMID: 20837901]

Pieper IL, Radley G, Chan CH et al. Quantification methods for human and large animal leukocytes using DNA dyes by flow cytometry *Cytometry A*. 2016-06-01 [PMID: 27271958] (FLOW)

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Barnable P, Calenda G, Bonnaire T et al. MIV-150/Zinc Acetate Gel Inhibits Cell-Associated Simian-Human Immunodeficiency Virus Reverse Transcriptase Infection in a Macaque Vaginal Explant Model *Antimicrob Agents Chemother*. 2015-07-01 [PMID: 25870063] (FLOW)

Bigler MB, Egli SB, Hysek CM et al. Stress-Induced In Vivo Recruitment of Human Cytotoxic Natural Killer Cells Favors Subsets with Distinct Receptor Profiles and Associates with Increased Epinephrine Levels: e0145635 *PLoS One* 2015-12-23 [PMID: 26700184] (FLOW)

More publications at <http://www.novusbio.com/703-0003>





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