Product Datasheet

Lightning-Link (R) R-PE Antibody Labeling Kit 703-0004

Unit Size: 3 mg

Store at -20C.

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Publications: 44

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
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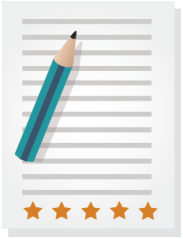
Updated 10/23/2024 v.20.1



703-0004

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

Product Information

Unit Size	3 mg
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

Product Description

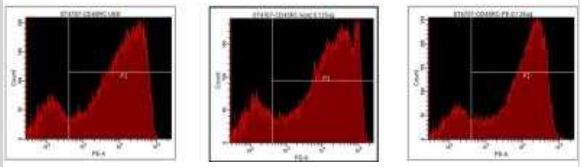
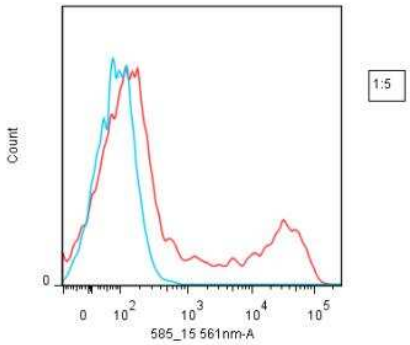
Description	Lightning-Link antibody labeling kits enable the direct labeling of antibodies, proteins, peptides or other biomolecules for use in R&D applications, drug discovery and the development of diagnostic kits (See protocol for further information). Our R-PE antibody labeling kit enables the direct 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. **FeaturesBenefits**Quick and easy to useSave time, no special knowledge requiredNo separation steps100% recovery - no antibody/protein lossCan be used in a wide range of applicationsFlexibleFreeze driedShips at ambient temperature, long shelf-lifeFully scalable (10 ug to 1 g or more)Easy transfer from R&D to manufacturingStringently QC testedConsistent high quality, excellent batch-to-batch reproducibilityLarge number of labels available Experimental flexibilityReliable: nearly 300 referencesSuccessfully used in many fields of research 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. Learn more about Lightning-Link™ Conjugation Kits by reading FAQs For more information please check out these useful links! Antibody Labeling Guide Antibody Conjugation Illustrated Assay
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	This product is manufactured by Abcam and distributed by Novus Biologicals. 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.

Product Application Details

Applications	Flow Cytometry

Recommended Dilutions	Flow Cytometry
Application Notes	The recommended conjugation conditions are based on using a 1mg/ml antibody concentration and are designed to give a 1:1 Ab:RPE conjugation molar ratio. This kit can be used to label up to 3 mg of antibody, and is supplied in one vial.

Images

Flow Cytometry: Lightning-Link R-PE Antibody Labeling Kit [703-0004] - ndirect labeling with CD45RC supernatant (left). Indirect labeling with CD45RC purified antibody (middle). Direct labeling with Lightning-Link CD45RC-PE Purified antibody (left).	
Lightning-Link R-PE Antibody Labeling Kit [703-0004] - Mouse anti-human CD8 was conjugated with R-Phycoerythrin using an Expedeon 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).	

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]

Hadadi E, Zhang B, Baidzajevas K et al. Differential IL-1beta secretion by monocyte subsets is regulated by Hsp27 through modulating mRNA stability. Sci Rep. 2016-12-15 [PMID: 27976724]

Charlermroj 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 Neovasculogenesis. 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)

Yu X, Rui L, Shao Q et al. Changes of CD4+CD25+ Cells Ratio in Immune Organs from Chickens Challenged with Infectious Bursal Disease Virus Strains with Varying Virulences Viruses 2015-03-20 [PMID: 25803101] (FLOW)

Starkie DO, Compson JE, Rapecki S, Lightwood DJ. Generation of Recombinant Monoclonal Antibodies from Immunised Mice and Rabbits via Flow Cytometry and Sorting of Antigen-Specific IgG+ Memory B Cells PLoS One 2016-03-29 [PMID: 27022949] (FLOW)

Wyns H, Croubels S, Demeyere K et al. Development of a cytometric bead array screening tool for the simultaneous detection of pro-inflammatory cytokines in porcine plasma Vet Immunol Immunopathol. 2013-01-15 [PMID: 23159236] (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/703-0004

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