

# Product Datasheet

## Lightning-Link (R) R-PE Antibody Labeling Kit 703-0015

Unit Size: 600 ug

Store at -20C.

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**703-0015****Lightning-Link (R) R-PE Antibody Labeling Kit**

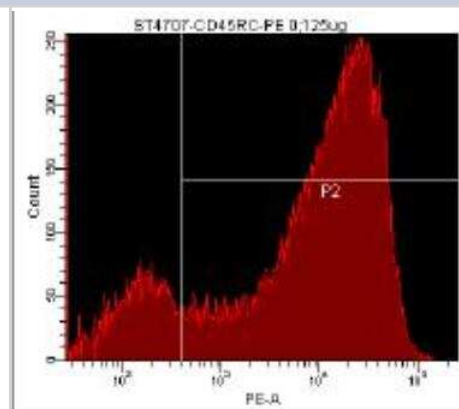
<b>Product Information</b>	
<b>Unit Size</b>	600 ug
<b>Concentration</b>	Concentration is not relevant for this product. Please see the protocols for proper use of this product.
<b>Storage</b>	Store at -20C.
<b>Conjugate</b>	R-Phycoerythrin
<b>Product Description</b>	
<b>Description</b>	<p>Lightning-Link antibody labeling kits enable the direct labeling of antibodies, proteins, peptides or other biomolecules for use in R&amp;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><b>Features</b>Quick and easy to use <b>Benefits</b>Save time, no special knowledge required No separation steps 100% recovery - no antibody/protein loss Can be used in a wide range of applications <b>Flexible</b>Freeze dried Ships at ambient temperature, long shelf-life Fully scalable (10 ug to 1 g or more) Easy transfer from R&amp;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>B-Phycoerythrin (B-PE)</b> and these are the most intense fluorescent phycobiliproteins providing an orange fluorescence.</p> <p>Learn more about Lightning-Link™ Conjugation Kits by reading <a href="#">FAQs</a></p> <p>For more information please check out these useful links! <a href="#">Antibody Labeling Guide</a> <a href="#">Antibody Conjugation Illustrated Assay</a></p>
<b>Kit Components</b>	1 or 3 or 5 glass vial(s) of Lightning-Link mix, 1 vial of LL-Modifier reagent, 1 vial of LL-Quencher reagent
<b>Notes</b>	<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 <a href="mailto:technical@novusbio.com">technical@novusbio.com</a> with questions.</p>
<b>Product Application Details</b>	
<b>Applications</b>	Flow Cytometry



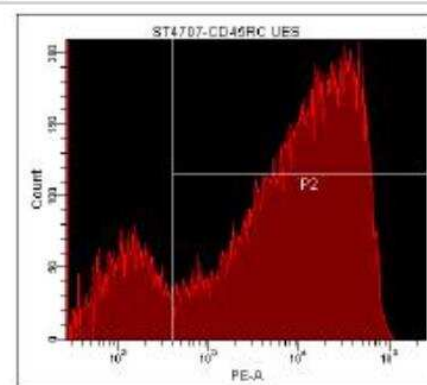
<b>Recommended Dilutions</b>	Flow Cytometry
<b>Application Notes</b>	By circumventing the desalting or dialysis steps that commonly interrupt traditional antibody conjugation procedures, LightningLink technology can be used to label both small (e.g. 10 ug) and large quantities of primary antibodies with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

## Images

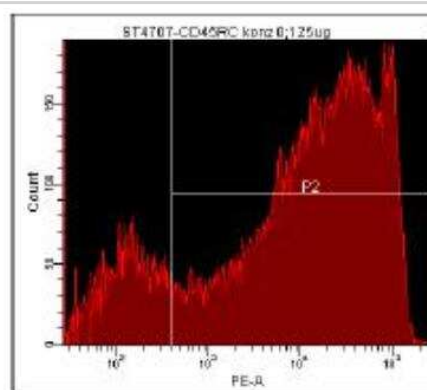
Flow Cytometry: Lightning-Link R-PE Antibody Labeling Kit [703-0015] - Direct labeling with Lightning Link CD45RC-PE



Flow Cytometry: Lightning-Link R-PE Antibody Labeling Kit [703-0015] - Indirect labeling with CD45RC supernatant



Flow Cytometry: Lightning-Link R-PE Antibody Labeling Kit [703-0015] - Indirect labeling with purified CD45RC antibody



## Publications

Davis CW, Jackson KJL, McElroy AK et al. Longitudinal Analysis of the Human B Cell Response to Ebola Virus Infection Cell 2019-05-30 [PMID: 31104840]

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]

Charlarmroj R, Makornwattana M, Himananto O et al. An accurate, specific, sensitive, high-throughput method based on a microsphere immunoassay for multiplex detection of three viruses and bacterial fruit blotch bacterium in cucurbits. J Virol Methods. 2017-01-01 [PMID: 28502647]

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, Baidzajevs 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]

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]

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)

Karagiannis P, Villanova F, Josephs DH et al. Elevated IgG4 in patient circulation is associated with the risk of disease progression in melanoma Oncoimmunology 2015-06-03 [PMID: 26451312] (FLOW)

Ding J, Tasker C, Lespinasse P et al. Integrin [alpha]4[beta]7 expression increases HIV susceptibility in activated cervical CD4+ T cells via an HIV attachment-independent mechanism. J Acquir Immune Defic Syndr. 2015-08-15 [PMID: 26167616] (FLOW)

More publications at <http://www.novusbio.com/703-0015>



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