

# Product Datasheet

## Lightning-Link (R) R-PE Antibody Labeling Kit 703-0010

Unit Size: 3 x 60ug Reaction

Store at -20C.

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**703-0010****Lightning-Link (R) R-PE Antibody Labeling Kit**

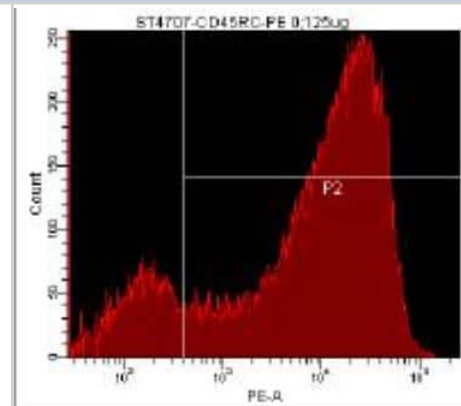
<b>Product Information</b>	
<b>Unit Size</b>	3 x 60ug Reaction
<b>Concentration</b>	Concentration is not relevant for this product. Please see the protocols for proper use of this product.
<b>Storage</b>	Store at -20C.
<b>Conjugate</b>	R-Phycoerythrin
<b>Buffer</b>	
<b>Product Description</b>	
<b>Description</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            Flexible            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>

**Product Application Details**

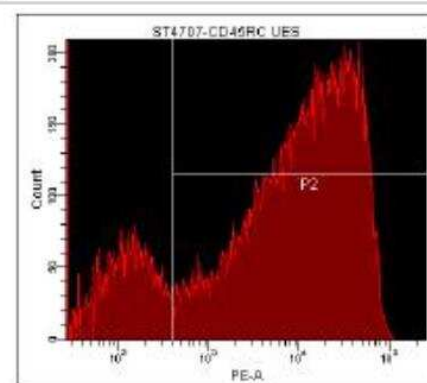
<b>Applications</b>	Flow Cytometry
<b>Recommended Dilutions</b>	Flow Cytometry
<b>Application Notes</b>	By circumventing the desalting or dialysis steps that commonly interrupt traditional antibody conjugation procedures, LightningLink technology can be used to label both small (e.g. 10 ug) and large 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 is supplied with 3 vials, each suitable for labeling up to 60 ug of antibody.

## Images

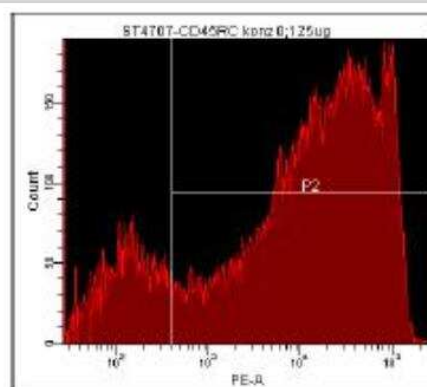
Flow Cytometry: Lightning-Link R-PE Antibody Labeling Kit [703-0010] - Direct labeling with Lightning Link CD45RC-PE



Flow Cytometry: Lightning-Link R-PE Antibody Labeling Kit [703-0010] - Indirect labeling with CD45RC supernatant



Flow Cytometry: Lightning-Link R-PE Antibody Labeling Kit [703-0010] - Indirect labeling with purified CD45RC antibody



## Publications

Maruyama S, Mandelare-Ruiz PE, McCauley M et al. Heat Stress of Algal Partner Hinders Colonization Success and Alters the Algal Cell Surface Glycome in a Cnidarian-Algal Symbiosis *Microbiology Spectrum* 2022-06-29 [PMID: 35639004] (FLOW, ICC/IF)

Parkinson JE, Tivey TR, Mandelare PE et al. Subtle Differences in Symbiont Cell Surface Glycan Profiles Do Not Explain Species-Specific Colonization Rates in a Model Cnidarian-Algal Symbiosis *Frontiers in Microbiology* 2018-05-01 [PMID: 29765363]

Noreng S, Ota N, Sun Y et al. Structure of the core human NADPH oxidase NOX2 *Nature communications* 2022-10-14 [PMID: 36241643]

Tivey TR, Parkinson JE, Mandelare PE, Adpressa DA N-linked surface glycan biosynthesis, composition, inhibition, and function in cnidarian-dinoflagellate symbiosis *Microb Ecol* 2020-01-27 [PMID: 31982929]

Awasthi S, Knox JJ, Desmond A Et al. Trivalent nucleoside-modified mRNA vaccine yields durable memory B cell protection against genital herpes in preclinical models *The Journal of clinical investigation* 2021-10-07 [PMID: 34618692]

Alameh MG, TombAcz I, Bettini E Et al. Lipid nanoparticles enhance the efficacy of mRNA and protein subunit vaccines by inducing robust T follicular helper cell and humoral responses *Immunity* 2021-11-01 [PMID: 34852217]

Urriola N, Lang B, Adelstein S Evaluation of commercially available antibodies and fluorescent conotoxins for the detection of surface ganglionic acetylcholine receptor on the neuroblastoma cell line, IMR-32 by flow cytometry *Journal of immunological methods* 2021-08-20 [PMID: 34425081]

Margaroli C, Benson P, Sharma NS et al. Spatial mapping of SARS-CoV-2 and H1N1 Lung Injury Identifies Differential Transcriptional Signatures *Cell reports. Medicine* 2021-03-23 [PMID: 33778787]

Morris AB, Farley CR, Pinelli DF et al. Signaling through the Inhibitory Fc Receptor Fc gamma RIIB Induces CD8+ T Cell Apoptosis to Limit T Cell Immunity *Immunity* 2020-01-14 [PMID: 31940267]

Shanmugasundaram R, Wick M, Lilburn MS Effect of a post-hatch lipopolysaccharide challenge in Turkey poults and ducklings after a primary embryonic heat stress *Dev. Comp. Immunol.* 2019-07-05 [PMID: 31283944] (Avian)

Pal k, Feng X, Steinke JW et al. Leukotriene A4 Hydrolase Activation and Leukotriene B4 Production by Eosinophils in Severe Asthma. *Am. J. Respir. Cell Mol. Biol.* 2018-10-23 [PMID: 30352167]

Shanmugasundaram R, Wick M, Lilburn M. Effect of embryonic thermal manipulation on heat shock protein 70 expression and immune system development in Pekin duck embryos. *Poult Sci.* 2018-08-14 [PMID: 30124990] (FLOW)

More publications at <http://www.novusbio.com/703-0010>



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This product is for research use only and is not approved for use in humans or in clinical diagnosis. Kits are guaranteed for 6 months from date of receipt.

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