

# Product Datasheet

## Lightning-Link (R) PE-Cy5.5 Antibody Labeling Kit 761-0015

Unit Size: 600 ug

Store at -20C.

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**761-0015****Lightning-Link (R) PE-Cy5.5 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>                   | PE/Cy5.5  |
| <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 PE/Cy5.5 antibody labeling kit enables the direct conjugation of the PE/Cy5.5 tandem dye to any biomolecule with an available amine group. The researcher simply pipettes the antibody or other biomolecule into the vial of Lightning-Link label and incubates for 3 hours.</p> <p><b>Features</b>Quick and easy to use<br/><b>Benefits</b>Save time, no special knowledge required<br/>No separation steps<br/>100% recovery - no antibody/protein loss<br/>Can be used in a wide range of applications<br/><b>Flexible</b>Freeze dried<br/>Ships at ambient temperature, long shelf-life<br/><b>Fully scalable</b> (10 ug to 1 g or more)<br/><b>Easy transfer</b> from R&amp;D to manufacturing<br/><b>Stringently QC tested</b><br/><b>Consistent high quality</b>, excellent batch-to-batch reproducibility<br/><b>Large number of labels available</b><br/><b>Experimental flexibility</b><br/><b>Reliable:</b> nearly 300 references<br/>Successfully used in many fields of research</p> <p>PE/Cy5.5 is a tandem conjugate. The PE has three maximal absorbance values of 498, 544 and 566nm with the optimal depending on the application. The PE functions as an energy donor for the Cy5.5. Energy is transferred from the PE to the Cy5.5 via energy resonance transfer. The Cy5.5 emits the energy received from the PE in the form of long wavelength light at 700nm.</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!<br/><a href="#">Antibody Labeling Guide</a><br/><a href="#">Antibody Conjugation Illustrated Assay</a></p> |
| <b>Kit Components</b>              | 1 or 3 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  |

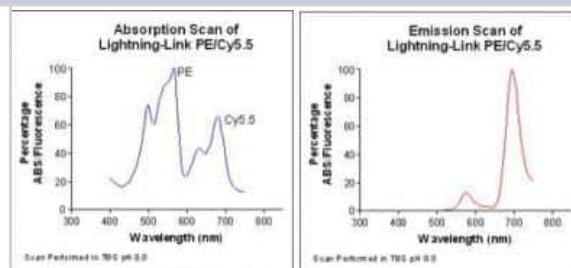


**Application Notes**

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 can be used to label up to 600 ug of antibody, and is supplied in one vial.

**Images**

Flow Cytometry: Lightning-Link PE-Cy5.5 Antibody Labeling Kit [761-0015]

**Publications**

Wang S, Wang B, Pan N et al. Differentiation of human induced pluripotent stem cells to mature functional Purkinje neurons Sci Rep. 2015-03-18 [PMID: 25782665] (FLOW)

Hesdorffer CS, Malchinkhuu E, Biragyn A et al. Distinctive immunoregulatory effects of adenosine on T cells of older humans The FASEB Journal 2010-01-01 [PMID: 22121051]

Olling A, Goy S, Hoffmann F et al. The Repetitive Oligopeptide Sequences Modulate Cytopathic Potency but Are Not Crucial for Cellular Uptake of Clostridium difficile Toxin A. PLoS One 2011-01-01 [PMID: 21445253] (FLOW)

Carter CC, Onafuwa-Nuga A, McNamara LA et al. HIV-1 Infects Multipotent Progenitor Cells Causing Cell Death and Establishing Latent Cellular Reservoirs Nature Medicine 2010-01-01 [PMID: 20208541]

Al-Dujaili EA, Mullins LJ, Bailey MA, Kenyon CJ. Development of a Highly Sensitive ELISA for Aldosterone in Mouse Urine: Validation in Physiological Pathophysiological States of Aldosterone Excess Depletion - . Steroids. 2008-01-01 [PMID: 19162057]

Bao S, Wu Q, Li Z et al. Targeting Cancer Stem Cells through L1CAM Suppresses Glioma Growth. Cancer Res 2008-01-01 [PMID: 18676824]

Marr AK, Jenssen H, Moniri MR et al. Bovine lactoferrin and lactoferricin interfere with intracellular trafficking of Herpes simplex virus-1. Biochemie 2009-01-01 [PMID: 18573311]

Velappan N, Clements J, Kiss C et al. Fluorescence linked immunosorbant assays using microtiter plates. J Immunol Methods. 2013-01-01 [PMID: 18514691]



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### **Limitations**

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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