

Product Datasheet

Lightning-Link (R) PE-Cy5 Antibody Labeling Kit 760-0010

Unit Size: 3 x 60ug Reaction

Store at -20C.

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760-0010**Lightning-Link (R) PE-Cy5 Antibody Labeling Kit**

Product Information	
Unit Size	3 x 60ug Reaction
Concentration	Concentration is not relevant for this product. Please see the protocols for proper use of this product.
Storage	Store at -20C.
Conjugate	PE/Cy5
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 PE/Cy5 antibody labeling kit enables the direct conjugation of the PE/Cy5 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>Features Benefits Quick and easy to use 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>PE/Cy5 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 and transfers its energy via energy resonance transfer. The Cy5 emits the energy received from the PE in the form of long wavelength light at 672nm.</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 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

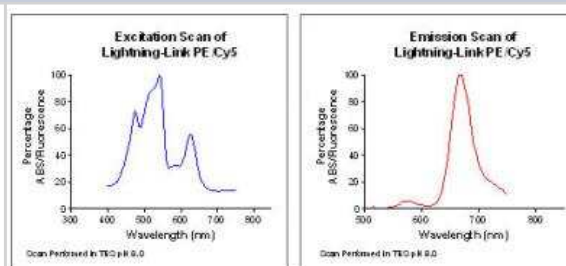


Application Notes

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 3 vials, each suitable for labeling up to 60 ug of antibody.

Images

Flow Cytometry: Lightning-Link PE-Cy5 Antibody Labeling Kit [760-0010]
- PE/Cy5 is a tandem conjugate. The PE is excited at 488nm and functions as an energy donor for the Cy5. Energy is transferred from the PE to the Cy5 via energy resonance transfer. The Cy5 emits the energy received from the PE in the form of long wavelength light at 679nm.

**Publications**

- Janakiram NB, Mohammed A, Bryant T et al. Potentiating NK cell activity by combination of Rosuvastatin and Difluoromethylornithine for effective chemopreventive efficacy against Colon Cancer. *Sci Rep.* 2016-11-14 [PMID: 27841323] (Rat)
- Taichman RS, Patel LR, Bedenis R et al. GAS6 Receptor Status Is Associated with Dormancy and Bone Metastatic Tumor Formation. *PLoS One* 2013-01-01 [PMID: 23637920] (FLOW)
- Kakhlon O, Glickstein H, Feinstein N et al. Polyglucosan neurotoxicity caused by glycogen branching enzyme deficiency can be reversed by inhibition of glycogen synthase. *J Neurochem* 2013-04-18 [PMID: 23607684]
- Zhao W, Wang L, Han H et al. 1B50-1, a mAb Raised against Recurrent Tumor Cells, Targets Liver Tumor-Initiating Cells by Binding to the Calcium Channel alpha 21 Subunit. *Cancer Cell* 2013-01-01 [PMID: 23597567] (FLOW)
- Kim N, Kukkonen S, Gupta S, Aldovini A. Association of Tat with Promoters of PTEN and PP2A Subunits Is Key to Transcriptional Activation of Apoptotic Pathways in HIV-Infected CD4+ T Cells. *PLoS Pathog.* 2010-01-01 [PMID: 20862322] (FLOW)
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- 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)
- 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

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