

# Product Datasheet

## Lightning-Link (R) PE-Cy7 Antibody Labeling Kit 762-0010

Unit Size: 3 x 60ug Reaction

Store at -20C.

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**762-0010****Lightning-Link (R) PE-Cy7 Antibody Labeling Kit**

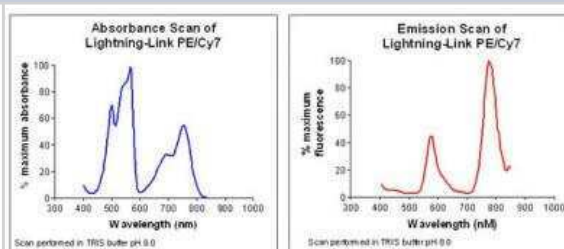
<b>Product Information</b>	
<b>Unit Size</b>	3 x 60ug Reaction
<b>Concentration</b>	Concentration is not relevant for this product. Please see the protocols for proper use of this product.
<b>Storage</b>	Store at -20C.
<b>Conjugate</b>	PE/Cy7
<b>Product Description</b>	
<b>Description</b>	<p>Lightning-Link 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/Cy7 antibody labeling kit enables the direct conjugation of the PE/Cy7 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>  <b>Benefits</b>            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&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>PE/Cy7 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 Cy7. Energy is transferred from the PE to the Cy7 via energy resonance transfer. The Cy7 emits the energy received from the PE in the form of long wavelength light at 782nm.</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>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> <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 is supplied with 3 vials, each suitable for labeling up to 60 ug of antibody.

**Images**

Flow Cytometry: Lightning-Link PE-Cy7 Antibody Labeling Kit [762-0010]

**Publications**

Okagawa T, Konnai S, Nishimori A et al. Bovine immunoinhibitory receptors contribute to the suppression of Mycobacterium avium subsp. paratuberculosis-specific T-cell responses Infect Immun. 2015-10-19 [PMID: 26483406] (FLOW)

Guerra-Perez N, Aravantinou M, Veglia F et al. Rectal HSV-2 Infection May Increase Rectal SIV Acquisition Even in the Context of SIVdeltanef Vaccination PLoS One 2016-02-17 [PMID: 26886938] (FLOW)

Boonpiyathad T, Meyer N, Moniuszko M et al. High-dose bee venom exposure induces similar tolerogenic B cell responses in patients and healthy beekeepers Allergy 2016-06-24 [PMID: 27341567] (FLOW)

Zhou M, Wang T, Lai H et al. Targeting of the deubiquitinase USP9X attenuates B-cell acute lymphoblastic leukemia cell survival and overcomes glucocorticoid resistance. Biochem Biophys Res Commun. 2015-01-01 [PMID: 25735983]

Rodgers JM, Robinson AP, Rosler ES et al. IL-17A activates ERK1/2 and enhances differentiation of oligodendrocyte progenitor cells. Glia 2014-01-01 [PMID: 25557204]

Goode D, Truong R, Villegas G et al. Driven Increase in the Expression of  $\alpha$ 4Beta7 Correlates with Increased Susceptibility to Vaginal SHIVSF162P3 Infection PLoS Pathog 2014-12-18 [PMID: 25521298] (FLOW)

Robinson AP, Rodgers JM, Goings GE, Miller SD. Characterization of Oligodendroglial Populations in Mouse Demyelinating Disease Using Flow Cytometry: Clues for MS Pathogenesis. PLoS One 2014-01-01 [PMID: 25247590] (FLOW)

Gallo S, Gatti S, Sala V et al. Agonist antibodies activating the Met receptor protect cardiomyoblasts from cobalt chloride-induced apoptosis and autophagy. Cell Death Dis 2014-01-01 [PMID: 24743740] (FLOW)

Hartley AN, Cooley G, Gwyn S et al. Frequency of IFN gamma-producing T cells correlates with seroreactivity and activated T cells during canine Trypanosoma cruzi infection. Vet Res 2014-01-01 [PMID: 24456537] (FLOW)

Ikebuchi R, Konnai S, Okagawa T et al. Influence of PD-L1 cross-linking on cell death in PD-L1-expressing cell lines and bovine lymphocytes. Immunology 2013-01-01 [PMID: 24405267]



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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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