# Product Datasheet

## Lightning-Link (R) APC-Cy7 Antibody Labeling Kit
## 765-0005

Unit Size: 100 ug

Store at -20C.

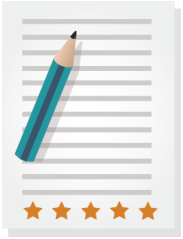
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# 765-0005

Lightning-Link (R) APC-Cy7 Antibody Labeling Kit

## Product Information

| | |
|---|---|
| **Unit Size** | 100 ug |
| **Concentration** | Concentration is not relevant for this product. Please see the protocols for proper use of this product. |
| **Storage** | Store at -20C. |
| **Conjugate** | Allophycocyanin/Cy7 |

## Product Description

| | |
|---|---|
| **Description** | 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).<br><br>The easy-to-use, one step procedure allows researchers to covalently label biomolecules with only 30 seconds hands on time. The researcher simply pipettes the biomolecule into a vial of lyophilized mixture containing the label of interest and incubates.<br><br>**FeaturesBenefits**Quick and easy to useSave time, no special knowledge requiredNo separation steps100% recovery - no antibody/protein lossCan be used in a wide range of applicationsFlexibleFreeze driedShips at ambient temperature, long shelf-lifeFully scalable (10 ug to 1 g or more)Easy transfer from R&D to manufacturingStringently QC testedConsistent high quality, excellent batch-to-batch reproducibilityLarge number of labels available Experimental flexibilityReliable: nearly 300 referencesSuccessfully used in many fields of research<br><br>APC/Cy7 is a tandem conjugate. The APC is excited at 652nm and functions as an energy donor for the Cy7. Energy is transferred from the APC to the Cy7 via **FRET** (Fluorescence Resonance Energy Transfer). The Cy7 emits the energy received from the APC in the form of long wavelength light at 790nm<br><br>Learn more about Lightning-Link™ Conjugation Kits by reading FAQs<br><br>For more information please check out these useful links!<br>Antibody Labeling Guide<br>Antibody Conjugation Illustrated Assay |
| **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** | This product is manufactured by Abcam and distributed by Novus Biologicals.<br><br>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. |

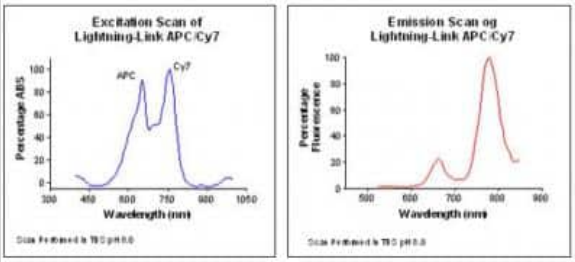
## Product Application Details

| | |
|---|---|
| **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 can be used to label up to 150 ug of antibody, and is supplied in one vial. |

## Images

Flow Cytometry: Lightning-Link APC-Cy7 Antibody Labeling Kit [765-0005]




## Publications

Titus HE, Xu H, Robinson AP et al. Repurposing the cardiac glycoside digoxin to stimulate myelin regeneration in chemically-induced and immune-mediated mouse models of multiple sclerosis Glia 2022-07-09 [PMID: 35809238]

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)

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)

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)

Jones CL, Ferreira S, McKenzie RC et al. Regulation of T-Plastin Expression by Promoter Hypomethylation in Primary Cutaneous T-Cell Lymphoma. J Invest Dermatol 2013-01-01 [PMID: 22495182] (FLOW)

Freeman CM, Crudgington S et al. Design of a multi-center immunophenotyping analysis of peripheral blood, sputum and bronchoalveolar lavage fluid in the Subpopulations and Intermediate Outcome Measures in COPD Study (SPIROMICS). J Transl Med 2015-01-01 [PMID: 25622723]

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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**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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