Product Datasheet

Lightning-Link (R) APC-Cy7 Antibody Labeling Kit
765-0030

Unit Size: 30 ug

Store at -20C.

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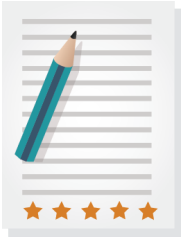


765-0030

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

Product Information

Unit Size	30 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). 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. **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 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 Learn more about Lightning-Link™ Conjugation Kits by reading FAQs For more information please check out these useful links! Antibody Labeling Guide 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. 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.

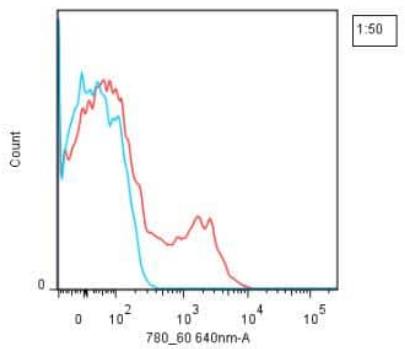
Product Application Details

Applications	Flow Cytometry
Recommended Dilutions	Flow Cytometry

Application Notes	Antibodies greater than 1mg/ml should be diluted to 1mg/ml using either milli-Q water or PBS. Antibodies less than 1mg/ml can still be used to generate good conjugates provided the maximum conjugation. Adding less than the recommended maximum amount of antibody may result in unbound label post conjugation. This kit is supplied with 3 vials, each suitable for labeling up to 15 ug of antibody.

Images

Lightning-Link APC-Cy7 Antibody Labeling Kit [765-0030] - Mouse anti-human CD8 was conjugated with APC-Cy7 using an Expedeon Lightning-Link kit. The conjugated antibody was then used to stain human peripheral blood lymphocytes, followed by analysis with flow cytometry. (Blue line - negative control; red line - positive staining).



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)

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] (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)

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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