Product Datasheet

Lightning-Link (R) PE-Cy7 Antibody Labeling Kit 762-0005

Unit Size: 60 ug

Store at -20C.

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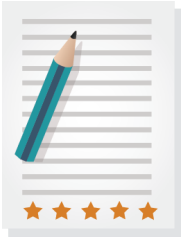
Publications: 14

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/762-0005

Updated 5/1/2024 v.20.1



762-0005

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

Product Information

Unit Size	60 ug
Concentration	Concentration is not relevant for this product. Please see the protocols for proper use of this product.
Storage	Store at -20C.
Conjugate	PE/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). 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. **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 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. 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.

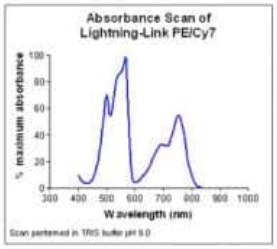
Product Application Details

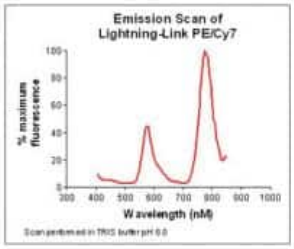
Applications	Flow Cytometry
Recommended Dilutions	Flow Cytometry

Application Notes	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 60 ug of antibody, and is supplied in one vial.

Images

Flow Cytometry: Lightning-Link PE-Cy7 Antibody Labeling Kit [762-0005]





Publications

Yazicioglu YF, Marin E, Sandhu C et al. Dynamic mitochondrial transcription and translation in B cells control germinal center entry and lymphomagenesis Nature Immunology 2023-06-01 [PMID: 37095377]

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]

Shanmugasundaram R, Acevedo K, Mortada M Et al. Effects of Salmonella enterica ser. Enteritidis and Heidelberg on host CD4+CD25+ regulatory T cell suppressive immune responses in chickens PLOS ONE 2021-11-29 [PMID: 34843525]

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 a4Beta7 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)

More publications at http://www.novusbio.com/762-0005

Procedures

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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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