Product Datasheet

Lightning-Link (R) PerCP-Cy5.5 Antibody Labeling Kit 763-0015

Unit Size: 1 mg

Store at -20C.

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Publications: 14

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
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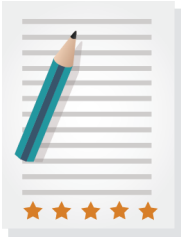
Updated 8/7/2024 v.20.1



763-0015

Lightning-Link (R) PerCP-Cy5.5 Antibody Labeling Kit

Product Information

Unit Size	1 mg
Concentration	Concentration is not relevant for this product. Please see the protocols for proper use of this product.
Storage	Store at -20C.
Conjugate	PerCP/Cy5.5

Product Description

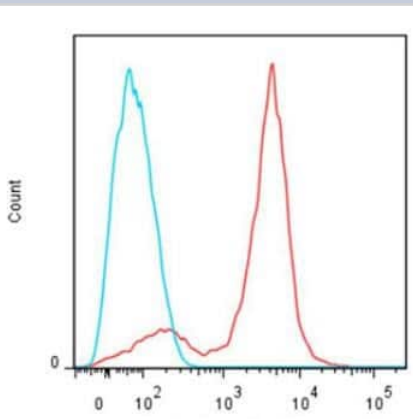
Description	Lightning-Link antibody labeling kits enable the direct labeling of antibodies, proteins, peptides or other biomolecules for use in R&D applications, drug discovery and the development of diagnostic kits (See protocol for further information). Our PerCP/Cy5.5 antibody labeling kit enables the direct conjugation of the PerCP/Cy5.5 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 PerCP/Cy5.5 is a tandem label. The PerCP excited at 484nm and functions as an energy donor for the Cy5.5. Energy is transferred from the PerCP to the Cy5.5 via energy resonance transfer. The Cy5.5 emits the energy received from the PerCP in the form of long wavelength light at 692nm. 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	Electron Microscopy, Flow Cytometry
Recommended Dilutions	Flow Cytometry, Electron Microscopy

Application Notes	PerCP/Cy5.5 is a tandem conjugate. In our Lightning-Link PerCP/Cy5.5 the best result is obtained when the tandem is excited at 488nm, wavelength at which the PerCP has its maximum absorption. The excited PerCP functions as an energy donor, where the energy is transferred via FRET (Fluorescence Resonance Energy Transfer) to the Cy5.5. The Cy5.5 emits then the energy received from the PE in the form of long wavelength light at 700nm. Use in FLOW cytometry reported in scientific literature (PMID 26483406). This kit can be used to label up to 1 mg of antibody, and is supplied in one vial.

Images

Flow Cytometry: Lightning-Link PerCP-Cy5.5 Antibody Labeling Kit [763-0015] - Mouse anti-human CD3 was conjugated with PerCP/Cy5.5 using 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

Goto S, Konnai S, Okagawa T et al. Increase of cells expressing PD-1 and PD-L1 and enhancement of IFN-y production via PD-1/PD-L1 blockade in bovine mycoplasmosis. Immun Inflamm Dis. 2017-01-01 [PMID: 28544524]

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Nishimori A, Konnai S, Okagawa T et al. In vitro and in vivo antivirus activity of an anti-programmed death-ligand 1 (PD-L1) rat-bovine chimeric antibody against bovine leukemia virus infection. PLoS One. 2017-04-26 [PMID: 28445479]

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Vremec D. The Isolation and Enrichment of Large Numbers of Highly Purified Mouse Spleen Dendritic Cell Populations and Their In Vitro Equivalents Methods Mol Biol. 2016-01-01 [PMID: 27142009] (FLOW)

Riley SP, Fish AI, Garza DA et al. Non-selective Persistence of a Rickettsia conoriiExtrachromosomal Plasmid During Mammalian Infection Infect Immun. 2016-01-11 [PMID: 26755154] (FLOW)

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)

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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)

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Slota C, Shi A, Chen G et al. Norepinephrine preferentially modulates memory CD8 T cell function inducing inflammatory cytokine production and reducing proliferation in response to activation. Brain Behav Immun. 2015-01-01 [PMID: 25653192] (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)

More publications at http://www.novusbio.com/763-0015

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