# Product Datasheet

## Lightning-Link (R) B-Phycoerythrin Antibody Labeling Kit 716-0010

Unit Size: 3 x 60ug Reaction

Store at -20C.

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**Publications: 6**

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/716-0010

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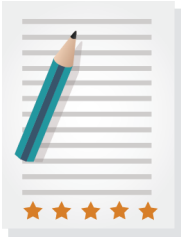

# 716-0010

Lightning-Link (R) B-Phycoerythrin Antibody Labeling Kit

## Product Information

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|---|---|
| **Unit Size** | 3 x 60ug Reaction |
| **Concentration** | Concentration is not relevant for this product. Please see the protocols for proper use of this product. |
| **Storage** | Store at -20C. |
| **Conjugate** | B-Phycoerythrin |

## 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>Our B-PE antibody labeling kit enables the direct conjugation of B-PE to any biomolecule with an available amine group. The researcher simply pipettes the antibody or other biomolecule into the vial of Lightning-Link R-PE and incubates for 3 hours.<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>BPE is a fluorescent protein from the phycobiliprotein family from the cyanbacteria and eukaryotic algae. It has a strong absorption peak at about 546 nm and has an emission value of 580 nm.<br><br>B-Phycoerythrin is often thought to be less "sticky" than **R-Phycoerythrin** therefore BPE conjugates tend to produce less background signal from non-specific binding in certain applications<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

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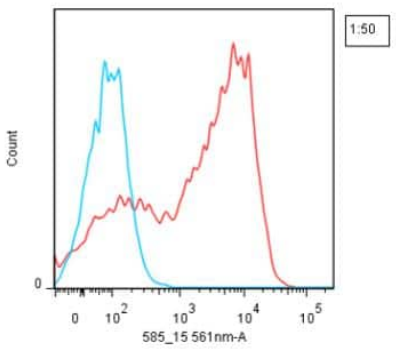
|---|---|
| **Applications** | Flow Cytometry |
| **Recommended Dilutions** | Flow Cytometry |
| **Application Notes** | By circumventing the desalting or dialysis steps that commonly interrupt traditional antibody conjugation procedures, LightningLink technology can be used to label both small (e.g. 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 is supplied with 3 vials, each suitable for labeling up to 60 ug of antibody. |

## Images

Flow Cytometry: Lightning-Link B-Phycoerythrin Antibody Labeling Kit [716-0010] - Mouse anti-human CD3 was conjugated with B Phycoerythrin using a 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

van der Vlist EJ, Nolte-'t Hoen EN, Stoorvogel W et al. Fluorescent labeling of nano-sized vesicles released by cells and subsequent quantitative and qualitative analysis by high-resolution flow cytometry Nature Protocols 2012-01-01 [PMID: 22722367] (FLOW)

Hoen EN, van der Vlist EJ, Aalberts M et al. Quantitative and qualitative flow cytometric analysis of nanosized cell-derived membrane vesicles Nanomedicine: Nanotechnology, Biology and Medicine 2011-01-01 [PMID: 22024193] (FLOW)

Al-Dujaili EA, Mullins LJ, Bailey MA, Kenyon CJ. Development of a Highly Sensitive ELISA for Aldosterone in Mouse Urine: Validation in Physiological Pathophysiological States of Aldosterone Excess Depletion - . Steroids. 2008-01-01 [PMID: 19162057]

Bao S, Wu Q, Li Z et al. Targeting Cancer Stem Cells through L1CAM Suppresses Glioma Growth. Cancer Res 2008-01-01 [PMID: 18676824]

Marr AK, Jenssen H, Moniri MR et al. Bovine lactoferrin and lactoferricin interfere with intracellular trafficking of Herpes simplex virus-1. Biochemie 2009-01-01 [PMID: 18573311]

Velappan N, Clements J, Kiss C et al. Fluorescence linked immunosorbant assays using microtiter plates. J Immunol Methods. 2013-01-01 [PMID: 18514691]

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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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