

# Product Datasheet

## Lightning-Link (R) APC Antibody Labeling Kit 705-0015

Unit Size: 1 mg

Store at -20C.

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**705-0015****Lightning-Link (R) APC Antibody Labeling Kit**

| <b>Product Information</b>         |  |
|------------------------------------|--|
| <b>Unit Size</b>                   | 1 mg   |
| <b>Concentration</b>               | Concentration is not relevant for this product. Please see the protocols for proper use of this product.   |
| <b>Storage</b>                     | Store at -20C.   |
| <b>Conjugate</b>                   | Allophycocyanin  |
| <b>Product Description</b>         |  |
| <b>Description</b>                 | <p>Lightning-Link antibody labeling kits enable the direct labeling of antibodies, proteins, peptides or other biomolecules for use in R&amp;D applications, drug discovery and the development of diagnostic kits (See protocol for further information).</p> <p>Our APC antibody labeling kit enables the direct conjugation of APC to any biomolecule with an available amine group. The researcher simply pipettes the antibody or other biomolecule into the vial of Lightning-Link APC and incubates for 3 hours.</p> <p><b>Features</b>Quick and easy to use<br/> <b>Benefits</b>Save time, no special knowledge required<br/>           No separation steps<br/>           100% recovery - no antibody/protein loss<br/>           Can be used in a wide range of applications<br/>           Flexible<br/>           Freeze dried<br/>           Ships at ambient temperature, long shelf-life<br/>           Fully scalable (10 ug to 1 g or more)<br/>           Easy transfer from R&amp;D to manufacturing<br/>           Stringently QC tested<br/>           Consistent high quality, excellent batch-to-batch reproducibility<br/>           Large number of labels available<br/>           Experimental flexibility<br/>           Reliable: nearly 300 references<br/>           Successfully used in many fields of research</p> <p>Allophycocyanin is a large 105kDa fluorescent phycobiliprotein. It absorbs at 652nm and emits at 666nm.</p> <p>Learn more about Lightning-Link™ Conjugation Kits by reading <a href="#">FAQs</a></p> <p>For more information please check out these useful links!<br/> <a href="#">Antibody Labeling Guide</a><br/> <a href="#">Antibody Conjugation Illustrated Assay</a></p> |
| <b>Kit Components</b>              | 1 or 3 glass vial(s) of Lightning-Link mix, 1 vial of LL-Modifier reagent, 1 vial of LL-Quencher reagent   |
| <b>Notes</b>                       | <p>This product is manufactured by Abcam and distributed by Novus Biologicals.</p> <p>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 <a href="mailto:technical@novusbio.com">technical@novusbio.com</a> with questions.</p>  |
| <b>Product Application Details</b> |  |
| <b>Applications</b>                | Flow Cytometry   |
| <b>Recommended Dilutions</b>       | Flow Cytometry   |

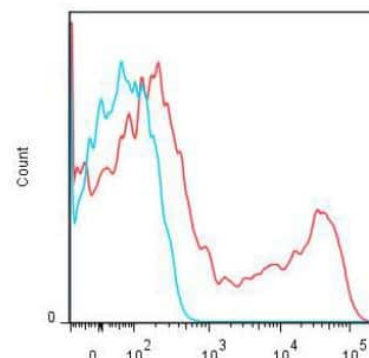


**Application Notes**

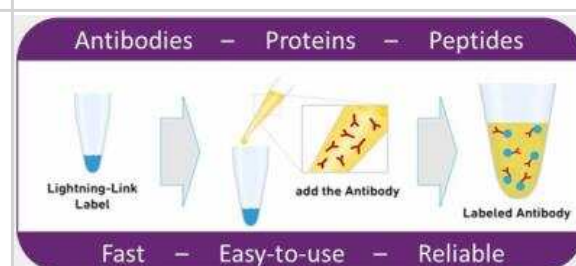
By circumventing the desalting or dialysis steps that commonly interrupt traditional antibody conjugation procedures, LightningLink technology can be used to label both small (e.g. 10 ug) and large quantities of primary antibodies with ease. Batch-to-batch variation upon scale up is minimal as the process is so simple, and recoveries are always 100%.

**Images**

Flow Cytometry: Lightning-Link APC Antibody Labeling Kit [705-0015] - Mouse anti-human CD8 was conjugated with APC using an Innova Biosciences 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).



Lightning-Link APC Antibody Labeling Kit [705-0015]



## Publications

Gobillot T Characterization of Zika virus prevalence in Kenya and the innate antiviral type-I interferon response against infection Thesis 2020-01-01

Dreisig K, Degn M, Sund L et al. Validation of antibodies for neuroanatomical localization of the P2Y11 receptor in macaque brain. J Chem Neuroanat. 2016-01-01 [PMID: 27515691]

Clements MP, Byrne E, Camarillo Guerrero LF et al. The Wound Microenvironment Reprograms Schwann Cells to Invasive Mesenchymal-like Cells to Drive Peripheral Nerve Regeneration. Neuron. 2017-09-27 [PMID: 28957681]

Sarangi PP, Lee HW, Lerman YV et al. Activated Protein C Attenuates Severe Inflammation by Targeting VLA-3high Neutrophil Subpopulation in Mice. J Immunol. 2017-10-15 [PMID: 28877991]

Shubin Z, Li W, Poonia B et al. An HIV envelope gp120-Fc fusion protein elicits effector antibody responses in rhesus macaques. Clin Vaccine Immunol. 2017-06-05 [PMID: 28404572]

Stacey MA, Clare S, Clement M, et al. The antiviral restriction factor IFN-induced transmembrane protein 3 prevents cytokine-driven CMV pathogenesis. J Clin Invest. 2017-04-03 [PMID: 28240600]

Chen F, Qi X, Zhang R et al. Episomal lentiviral vectors confer erythropoietin expression in dividing cells. Plasmid. 2017-01-01 [PMID: 28189631]

Bowen JR, Quicke KM, Maddur MS et al. Zika Virus Antagonizes Type I Interferon Responses during Infection of Human Dendritic Cells. PLoS Pathog. 2017-02-02 [PMID: 28152048]

Klement M, Zheng J, Liu C et al. Antibody engineering of a cytotoxic monoclonal antibody 84 against human embryonic stem cells: Investigating the effects of multivalency on cytotoxicity. J Biotechnol. 2017-02-10 [PMID: 28042013]

Ganta VC, Choi M, Kutateladze A, Annex BH. VEGF165b Modulates Endothelial VEGFR1-STAT3 Signaling Pathway and Angiogenesis in Human and Experimental Peripheral Arterial Disease. Circ Res. 2017-01-20 [PMID: 27974423]

Cook AD, Louis C, Robinson MJ et al. Granulocyte macrophage colony-stimulating factor receptor alpha expression and its targeting in antigen-induced arthritis and inflammation. Arthritis Res Ther. 2016-12-01 [PMID: 27908288]

Yasmin AR2, Yeap SK, Hair-Bejo M, Omar AR. Characterization of Chicken Splenic Dendritic Cells following Vaccine and Very Virulent Strains of Infectious Bursal Disease Virus Infection. Avian Dis. 2016-01-01 [PMID: 27902915]

More publications at <http://www.novusbio.com/705-0015>





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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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