

# Product Datasheet

## Lightning-Link (R) APC Antibody Labeling Kit 705-0030

Unit Size: 3 x 10ug Reaction

Store at -20C.

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**705-0030****Lightning-Link (R) APC Antibody Labeling Kit**

<b>Product Information</b>	
<b>Unit Size</b>	3 x 10ug Reaction
<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  <b>Benefits</b>Save time, no special knowledge required            No separation steps            100% recovery - no antibody/protein loss            Can be used in a wide range of applications            Flexible            Freeze dried            Ships at ambient temperature, long shelf-life            Fully scalable (10 ug to 1 g or more)            Easy transfer from R&amp;D to manufacturing            Stringently QC tested            Consistent high quality, excellent batch-to-batch reproducibility            Large number of labels available            Experimental flexibility            Reliable: nearly 300 references            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!  <a href="#">Antibody Labeling Guide</a>  <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, Immunocytochemistry/ Immunofluorescence
<b>Recommended Dilutions</b>	Flow Cytometry, Immunocytochemistry/ Immunofluorescence

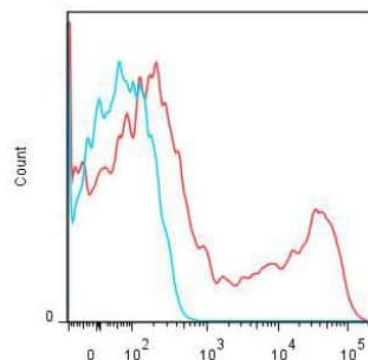


**Application Notes**

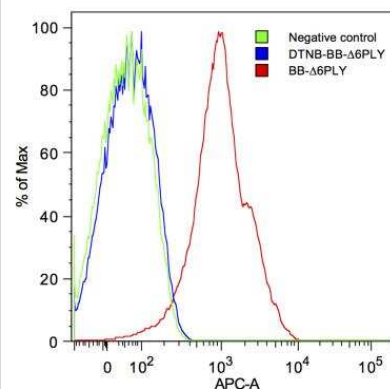
Use in ICC/IF reported in scientific literature (PMID:10.3390/mi12050546) By circumventing the desalting or dialysis steps that commonly interrupt traditional antibody conjugation procedures, LightningLink technology can be used to label both small (e.g. 10 ug) and large quantities of primary antibodies 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 10 ug of antibody.

**Images**

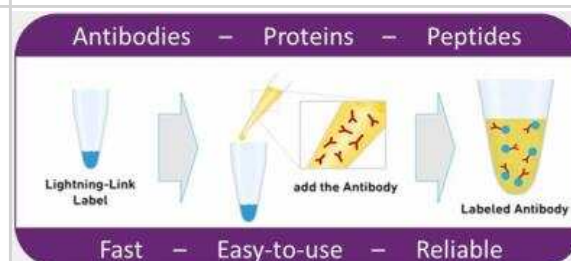
Flow Cytometry: Lightning-Link APC Antibody Labeling Kit [705-0030] - Mouse anti-human CD8 was conjugated with APC using an Innova Biosciences Lightning-Link® kit. The conjugated antibody was then used to stain human peripheral blood lymphocytes, followed by analysis with flow cytometry. (Blue line - negative control; red line - positive staining).



Flow Cytometry: Lightning-Link APC Antibody Labeling Kit [705-0030] - Cellular binding of Pneumolysin derivatives were labelled with LightningLink APC kit. APC-labelled Pneumolysin could be detected binding to erythrocytes as evidence by the >1 log shift in the flow cytometry histogram. Image from verified customer review.



Lightning-Link APC Antibody Labeling Kit [705-0030]



## Publications

Kinchen J, Chen HH, Parikh K et al. Structural Remodeling of the Human Colonic Mesenchyme in Inflammatory Bowel Disease. Cell 2018-09-25 [PMID: 30270042]

Fitzgerald G, Turiel G, Gorski T et al. MME(+) fibro-adipogenic progenitors are the dominant adipogenic population during fatty infiltration in human skeletal muscle Communications Biology 2023-01-27 [PMID: 36707617]

He W, Ou T, Skamangas N et al. Heavy-chain CDR3-engineered B cells facilitate in vivo evaluation of HIV-1 vaccine candidates Immunity 2023-07-26 [PMID: 37531955]

Fitzgerald, G, G Fibro-adipogenic progenitor heterogeneity in healthy and diseased skeletal muscle Thesis 2022-01-01

Fitzgerald, G, G Fibro-adipogenic progenitor heterogeneity in healthy and diseased skeletal muscle Thesis 2022-01-01

Noreng S, Ota N, Sun Y et al. Structure of the core human NADPH oxidase NOX2 Nature communications 2022-10-14 [PMID: 36241643]

Schardt JS, Pornnoppadol G, Desai AA Et al. Discovery and characterization of high-affinity, potent SARS-CoV-2 neutralizing antibodies via single B cell screening Scientific reports 2021-10-20 [PMID: 34671080] (ICC/IF)

Rimsa R, Galvanovskis A, Plume J et al. Lung on a Chip Development from Off-Stoichiometry Thiol-Ene Polymer Micromachines 2021-05-11 [PMID: 34064627] (ICC/IF)

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

Radley G, Pieper IL, Robinson CR et al. In Vitro Benchmarking Study of Ventricular Assist Devices in Current Clinical Use J. Card. Fail. 2019-10-05 [PMID: 31593759] (Bovine)

Theodoraki MN, Hoffmann TK, Jackson EK, Whiteside TL. Exosomes in HNSCC plasma as surrogate markers of tumour progression and immune competence. Clin. Exp. Immunol. 2018-10-01 [PMID: 30229863]

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]

More publications at <http://www.novusbio.com/705-0030>





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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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