

# Product Datasheet

## Lightning-Link (R) Rapid Fluorescein Antibody Labeling Kit 310-0010

Unit Size: 3 x 100ug Reaction

Store at -20C.

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**310-0010****Lightning-Link (R) Rapid Fluorescein Antibody Labeling Kit**

<b>Product Information</b>	
<b>Unit Size</b>	3 x 100ug 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>	Fluorescein
<b>Product Description</b>	
<b>Description</b>	<p>Lightning-Link Rapid is an innovative technology that enables direct labeling of 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>The easy-to-use, one step procedure allows researchers to covalently label biomolecules with only 30 seconds hands-on time; furthermore conjugates are ready to use in less than twenty minutes.</p> <p>The researcher simply pipettes the biomolecule into a vial of lyophilized mixture containing the label of interest and incubates (for more details please watch the video below).</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>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 Rapid mix, 1 vial of LL-Rapid Modifier reagent, 1 vial of LL-Rapid 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>	

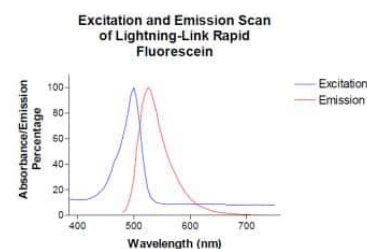


**Application Notes**

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 200 ug of antibody.

**Images**

Lightning-Link Rapid Fluorescein Antibody Labeling Kit [310-0010] - Fluorescein is a fluorophore widely used in biological analysis, with a pH dependent absorption and emission spectrum. In TBS LL Rapid-Fluorescein shows an absorption maximum at 494 nm and an emission maximum at 520 nm



Absorbance Max (nm)	Emission Max (nm)	Extinction Coefficient (cm <sup>2</sup> M <sup>-1</sup> )	Fluorescent Colour	Stokes Shift
494	520	73000	Green	26

Lightning-Link Rapid Fluorescein Antibody Labeling Kit [310-0010]



## Publications

Thieme C, Abou-el-Enein M, Fritsche E, Anft M Detection of SARS-CoV-2 Specific Memory B cells to Delineate Long-Term COVID-19 Immunity Allergy 2021-03-25 [PMID: 33764510]

Sladojevic N, Stamatovic SM, Keep RF et al. Inhibition of junctional adhesion molecule-A/LFA interaction attenuates leukocyte trafficking and inflammation in brain ischemia/reperfusion injury. Neurobiol Dis 2014-01-01 [PMID: 24657919]

Dragovic RA, Southcombe JH, Tannetta DS et al. Multicolor Flow Cytometry and Nanoparticle Tracking Analysis of Extracellular Vesicles in the Plasma of Normal Pregnant and Pre-eclamptic Women. Biol Reprod. 2013-01-01 [PMID: 24227753] (FLOW)

Zubareva A, Ily'ina A, Prokhorov A et al. Characterization of Protein and Peptide Binding to Nanogels Formed by Differently Charged Chitosan Derivatives. Molecules 2013-01-01 [PMID: 23823877] (ICC/IF)

Alvarez-Gallardo H, Kjelland ME, Moreno JF et al. Gamete Therapeutics: Recombinant Protein Adsorption by Sperm for Increasing Fertility via Artificial Insemination. PLoS One 2013-01-01 [PMID: 23762288] (ICC/IF)

Tsai YM, Hsu SC, Zhang J et al. Functional Interaction of Cockroach Allergens and Mannose Receptor (CD206) in Human Circulating Fibrocytes. PLoS One 2013-01-01 [PMID: 23734186] (FLOW)

De Riva A, Varley MC, Bluck LJ et al. Accelerated Turnover of MHC Class II Molecules in Nonobese Diabetic Mice Is Developmentally and Environmentally Regulated In Vivo and Dispensable for Autoimmunity. J Immunol. 2013-01-01 [PMID: 23677470]

Zhao W, Wang L, Han H et al. 1B50-1, a mAb Raised against Recurrent Tumor Cells, Targets Liver Tumor-Initiating Cells by Binding to the Calcium Channel alpha 21 Subunit. Cancer Cell 2013-01-01 [PMID: 23597567] (FLOW)

Weber M, Lupp C, Stein P et al. Mechanisms of Cyclic Nucleotide Phosphodiesterases in Modulating T Cell Responses in Murine Graft-versus-Host Disease. PLoS One 2013-01-01 [PMID: 23483980] (FLOW)

Tannetta DS, Dragovic RA, Gardiner C et al. Characterisation of Syncytiotrophoblast Vesicles in Normal Pregnancy and Pre-Eclampsia: Expression of Flt-1 and Endoglin. PLoS One 2013-01-01 [PMID: 23437230] (FLOW)

Curry JM, Thompson KJ, Rao SG et al. The use of a novel MUC1 antibody to identify cancer stem cells and circulating MUC1 in mice and patients with pancreatic cancer. J Surg Oncol 2013-01-01 [PMID: 23335066] (IA)

Al-Ghouleh A, Johal R, Sharquie IK et al. The Glycosylation Pattern of Common Allergens: The Recognition and Uptake of Der p 1 by Epithelial and Dendritic Cells Is Carbohydrate Dependent. PLoS One 2012-01-01 [PMID: 22479478] (IA)

More publications at <http://www.novusbio.com/310-0010>





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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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