

# Product Datasheet

## Lightning-Link (R) Rapid DyLight 650 Antibody Labeling Kit 326-0010

Unit Size: 3 x 100ug Reaction

Store at -20C.

[www.novusbio.com](http://www.novusbio.com)



[technical@novusbio.com](mailto:technical@novusbio.com)

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**326-0010****Lightning-Link (R) Rapid DyLight 650 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>	DyLight 650
<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>DyLight 650 generates far red fluorescence for a wide array of fluorescence labeling-based applications. It has a strong absorption at 656nm, high fluorescence at 686nm (extinction coefficient <math>2.5 \times 10^5 \text{ cm}^{-1}\text{M}^{-1}</math>) and high quantum yield.</p> <p>DyLight dyes are extremely bright and are highly water soluble meaning that a high dye-protein ratio can be achieved without precipitation of the conjugates. Furthermore DyLight dyes retain their fluorescence over a pH range of 4-9.</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



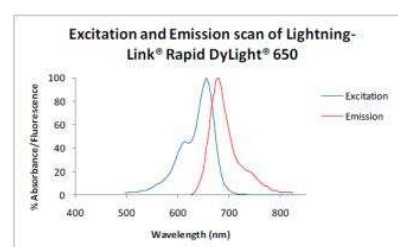
<b>Notes</b>	<p>This product is manufactured by Abcam and distributed by Novus Biologicals.</p> <p>This product is for research use only and is not approved for use in humans or in clinical diagnosis. This product is guaranteed for 1 year from date of receipt and this statement overrides any mentioned 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>
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## Product Application Details

<b>Applications</b>	Flow Cytometry
<b>Recommended Dilutions</b>	Flow Cytometry
<b>Application Notes</b>	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

Lightning-Link Rapid DyLight 650 Antibody Labeling Kit [326-0010]



Scan performed in TBS pH 8.0

Absorbance Max (nm)	Emission Max (nm)	Extinction Coefficient (cm <sup>2</sup> M <sup>-1</sup> )	Fluorescent Colour	Stokes Shift
652	672	250000	Red	20

## Publications

Musich T, Jones JC, Keele BF et al. Flow virometric sorting and analysis of HIV quasispecies from plasma. JCI Insight. 2017-02-23 [PMID: 28239654]

Jiang P, Gan M, Yen SH et al. Histones facilitate a-synuclein aggregation during neuronal apoptosis. Acta Neuropathol. 2017-01-01 [PMID: 28004278]

Rossant CJ, Carroll D, Huang L et al. Phage display and hybridoma generation of antibodies to human CXCR2 yields antibodies with distinct mechanisms and epitopes. MAbs 2014-01-01 [PMID: 25484064]

Keeley EC, Schutt RC, Marinescu MA et al. Circulating fibrocytes as predictors of adverse events in unstable angina Transl Res. 2016-03-08 [PMID: 27012475] (FLOW)





### **Novus Biologicals USA**

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
nb-customerservice@bio-techne.com

### **Bio-Techne Canada**

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### **Bio-Techne Ltd**

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### **General Contact Information**

[www.novusbio.com](http://www.novusbio.com)  
Technical Support: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **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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