

# Product Datasheet

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

**326-0005**

Unit Size: 100 ug

Store at -20C.

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**326-0005****Lightning-Link (R) Rapid DyLight 650 Antibody Labeling Kit**

| <b>Product Information</b> |   |
|----------------------------|---|
| <b>Unit Size</b>           | 100 ug  |
| <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<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>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!<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® Rapid mix, 1 vial of LL Rapid Modifier reagent, 1 vial of LL Rapid Quencher reagent   |

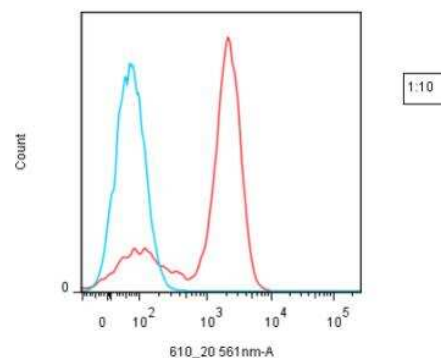
|              |  |
|--------------|--|
| <b>Notes</b> | This product is manufactured by Abcam and distributed by Novus Biologicals.<br><br>This product is for research use only and is not approved for use in humans or in clinical diagnosis. This product is guaranteed for 1 year from date of receipt and this statement overrides any mentioned guarantee period on the limitations section of this products datasheet. Please contact <a href="mailto:technical@novusbio.com">technical@novusbio.com</a> with questions. |
|--------------|--|

## Product Application Details

|                          |  |
|--------------------------|--|
| <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 - Mouse anti-human CD3 was conjugated with DyLight 650 using an Expedeon 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).





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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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