

# Product Datasheet

## Lightning-Link (R) Rapid Type A Biotin Antibody Labeling Kit

**370-0010**

Unit Size: 3 x 100ug Reaction

Store at -20C.

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**370-0010****Lightning-Link (R) Rapid Type A Biotin 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>	Biotin
<b>Product Description</b>	
<b>Description</b>	<p>Lightning-Link Rapid Antibody Labeling kits enable direct labeling of antibodies, proteins, peptides or other biomolecules (See protocol for further information) and allow conjugations to be set up in seconds, and used within minutes (less than 20 minutes).</p> <p>Our Lightning-Link Rapid technology can be used to label small quantities of antibody with 100% recovery. The researcher simply pipettes the antibody or other biomolecule into a vial of lyophilized mixture containing the label of interest and incubates the reaction for <b>only 15 minutes</b> (for more details please watch the video below). As there are no desalting or dialysis steps that commonly interrupt traditional protein labeling procedures.</p> <p><b>Features Benefits</b> Quick and easy to use 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>The attachment of biotin to biomolecules is an important laboratory technique. Biotin binds to the tetrameric avidin proteins, including streptavidin and neutravidin, with exceptionally high affinity, and this interaction is exploited in various applications such as western blotting, immunohistochemistry and ELISA. Our biotinylation kits are optimised to create high quality conjugates and minimise assay background.</p> <p><b>Lightning-Link Biotin Has been optimized for two separate applications:</b></p> <ul style="list-style-type: none"> <li>• <b>Type A</b> - Intended for assays in which a streptavidin-labeled detection reagent will be used.</li> <li>• <b>Type B</b> - Optimised for assays in which the biotinylated protein is captured by streptavidin immobilized on a surface (ie plates, nitrocellulose, magnetic beads etc).</li> </ul> <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

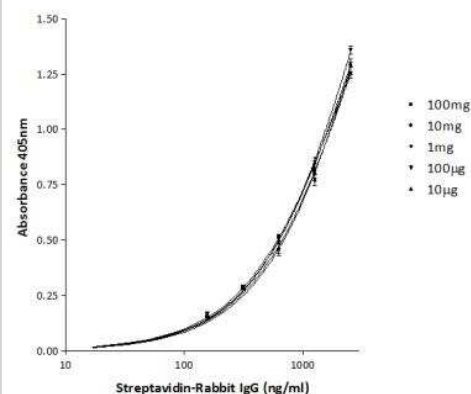
<b>Notes</b>	<p>This product is manufactured by Abcam and distributed by Novus Biologicals.</p> <p>This product is for research use only and is not approved for use in humans or in clinical diagnosis. This product is guaranteed for 1 year from date of receipt and this statement overrides any mentioned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

Lightning-Link Rapid Type A Biotin Antibody Labeling Kit [370-0010] - CRP labeled with Lightning-Link Rapid Biotin A at 10ug, 100ug, 1mg, 10mg and 100mg single reaction vials tested with Streptavidin-Rabbit IgG in a sandwich ELISA. Detection: ABTS.



## Publications

Velappan N, Nguyen HB, Micheva-Viteva S et al. Healthy humans can be a source of antibodies countering COVID-19 Bioengineered 2022-05-23 [PMID: 35599623]

Parzych EM, Du J, Ali AR et al. DNA-delivered antibody cocktail exhibits improved pharmacokinetics and confers prophylactic protection against SARS-CoV-2 Nature communications 2022-10-06 [PMID: 36202799]

Xu Z, Walker S, Wise MC et al. Induction of tier-2 neutralizing antibodies in mice with a DNA-encoded HIV envelope native like trimer Nature communications 2022-02-04 [PMID: 35121758]

Xu Z, Walker S, Wise M et al. Structural identification of neutralizing antibodies induced by nucleic acid encoded native-like trimer Research Square 2021-03-17

Hofmann L, Ludwig S, Schuler PJ et al. The Potential of CD16 on Plasma-Derived Exosomes as a Liquid Biomarker in Head and Neck Cancer Int J Mol Sci 2020-05-26 [PMID: 32466374]





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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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