

# Product Datasheet

## Lightning-Link (R) Rapid Cy3 Antibody Labeling Kit 340-0030

Unit Size: 3 x 10ug Reaction

Store at -20C.

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**340-0030****Lightning-Link (R) Rapid Cy3 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>	Cy3
<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>Cyanine Dye 3 (Cy3) has a strong absorption peak at 552nm. The maximum emission peak is at 576nm, with an excitation coefficient of <math>1.5 \times 10^5 \text{ cm}^{-1} \text{ M}^{-1}</math>. Cy3 can be used as an alternative to Alexa Fluor 555, DY-550, Rhodamine Red-X and TAMRA [5(6)-Carboxytetramethylrhodamine].</p> <p>Cyanine dyes are bright and stable fluorescent dyes</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>



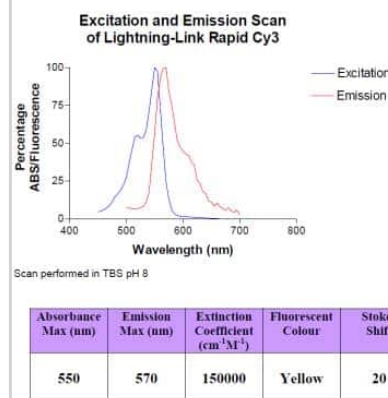
## Product Application Details

### 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 20 ug of antibody.

## Images

### Lightning-Link Rapid Cy3 Antibody Labeling Kit [340-0030]



## Publications

Lindström V, Gustafsson G, Sanders LH et al. Extensive uptake of alpha-synuclein oligomers in astrocytes results in sustained intracellular deposits and mitochondrial damage. *Mol. Cell. Neurosci.* 2017-04-24 [PMID: 28450268]

Chan CY, Zhao H, Pugh RJ et al. Purinosome formation as a function of the cell cycle. *PNAS* 2015-01-01 [PMID: 25605889]

Zhao H, Chiaro CR, Zhang L et al. Quantitative Analysis of Purine Nucleotides Indicates Purinosomes Increase de Novo Purine Biosynthesis. *J Biol Chem.* 2015-01-01 [PMID: 25605736] (ICC/IF)

van Dam A, Aalders MC, van de Braak K et al. Simultaneous labeling of multiple components in a single fingerprint. *Forensic Sci Int* 2013-01-01 [PMID: 24053878]

Cayer MP, Samson M, Bertrand C et al. Suppression of protein phosphatase 2A activity enhances Ad5/F35 adenovirus transduction efficiency in normal human B lymphocytes and in Raji cells. *J Immunol Methods.* 2011-01-01 [PMID: 22210093] (FLOW)

Arcand J, Robitaille G, Koenig M et al. Heparin inhibits the interaction of DNA topoisomerase I (topo-I)/anti-topo-I immune complexes with heparan sulfate on dermal fibroblasts. *Arthritis Rheum.* 2011-01-01 [PMID: 22095242] (FLOW)

Samson M, Jung D. Intracellular trafficking and fate of chimeric adenovirus 5/F35 in human B lymphocytes. *J Gene Med* 2011-01-01 [PMID: 21766397]



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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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