

# Product Datasheet

## Lightning-Link (R) Rapid AMCA Antibody Labeling Kit 313-0010

Unit Size: 3 x 100ug Reaction

Store at -20C.

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**313-0010****Lightning-Link (R) Rapid AMCA 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>	AMCA
<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>Unlike standard AMCA labeling procedures, where a large molar excess of AMCA is employed, the Lightning-Link AMCA kit combines a low molar ratio of AMCA:antibody and high labeling efficiency to eliminate the need for purification steps.</p> <p>AMCA (aminomethylcoumarin acetate) is a blue fluorescent dye commonly used in fluorescence microscopy, arrays and in-situ hybridisation. It has an excitation wavelength of 352nm and a maximal emission of 452nm.</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



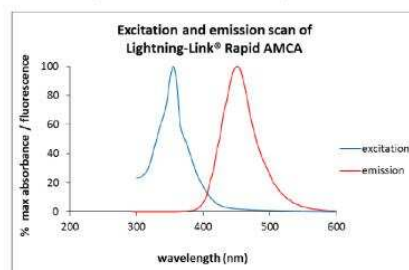
<b>Notes</b>	<p>This product is manufactured by Abcam and distributed by Novus Biologicals.</p> <p>This product is for research use only and is not approved for use in humans or in clinical diagnosis. This product is guaranteed for 1 year from date of receipt and this statement overrides any mentioned 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>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 AMCA Antibody Labeling Kit [313-0010] - AMCA (aminomethylcoumarin acetate) is a blue fluorescent dye commonly used in fluorescence microscopy, arrays and in-situ hybridisation. It has a strong absorption at 353nm and high fluorescence at 442nm (extinction coefficient  $1.9 \times 10^4 \text{ cm}^{-1}\text{M}^{-1}$ ).



Scan performed in TBS pH 8.0.

Absorbance Max (nm)	Emission Max (nm)	Extinction Coefficient ( $\text{cm}^{-1}\text{M}^{-1}$ )	Fluorescent Colour	Stokes Shift
353	442	19000	Blue	89

## Publications

Liu Y, Wei J, Lu J et al. Micropatterned coculture of hepatocytes on electrospun fibers as a potential in vitro model for predictive drug metabolism Mater Sci Eng C Mater Biol Appl. 2016-06-01 [PMID: 27040241] (ICC/IF)



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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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