

# Product Datasheet

## Lightning-Link (R) Alkaline Phosphatase Animal Free Antibody Labeling Kit

**798-0015**

Unit Size: 1 mg

Store at -20 °C.

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



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

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:  
[www.novusbio.com/798-0015](http://www.novusbio.com/798-0015)

Updated 4/29/2024 v.20.1

Earn rewards for product  
reviews and publications.

Submit a publication at [www.novusbio.com/publications](http://www.novusbio.com/publications)

Submit a review at [www.novusbio.com/reviews/destination/798-0015](http://www.novusbio.com/reviews/destination/798-0015)



**798-0015****Lightning-Link (R) Alkaline Phosphatase Animal Free Antibody Labeling Kit**

<b>Product Information</b>	
<b>Unit Size</b>	1 mg
<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 -20 °C.
<b>Conjugate</b>	Alkaline Phosphatase
<b>Product Description</b>	
<b>Description</b>	<p>Lightning-Link antibody labeling kits enable the direct labeling of antibodies, 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>Our Lightning-Link(R) Alkaline Phosphatase AF (Animal Free) antibody labeling kit enables the direct conjugation of antibodies, proteins and peptides (or any other biomolecule with an available amine group) to alkaline phosphatase, with only 30 seconds hands-on time and with 100% recovery of materials.</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>Alkaline phosphatase is a hydrolyase enzyme that is frequently conjugated to antibodies for use in immunoassays. PNPP is a popular colorimetric substrate for AP, the product of the reaction, p-nitrophenol, can be read at 405 nM. Fluorogenic substrates (e.g. 4-methylumbelliferyl phosphate, MUP) may also be employed.</p> <p>Alkaline phosphatase AF (Animal Free Origin) catalyses the same reaction of conventional alkaline phosphatase (EC 3.1.3.1) but it is produced in a microbial host, representing an alternative to bovine alkaline phosphatase, to support scientists working with assays where AF conditions are critical, without compromising on quality, stability and accuracy.</p> <p>Additionally, paperwork and safety restrictions for transport and handling can be reduced as our AF alkaline phosphatase is provided BSA-free.</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>	Lightning-Link (R) Alkaline Phosphatase AF (1 glass vial), LL-AP Modifier reagent (1 vial), LL-Quencher reagent (1 vial)

<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>
--------------	---

<b>Product Application Details</b>	
<b>Applications</b>	ELISA
<b>Recommended Dilutions</b>	ELISA
<b>Application Notes</b>	By circumventing the desalting or dialysis steps that commonly interrupt traditional antibody conjugation procedures, Lightning-Link(R) 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%.





### **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  
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.

For more information on our 100% guarantee, please visit [www.novusbio.com/guarantee](http://www.novusbio.com/guarantee)

Earn gift cards/discounts by submitting a review: [www.novusbio.com/reviews/submit/798-0015](http://www.novusbio.com/reviews/submit/798-0015)

Earn gift cards/discounts by submitting a publication using this product:  
[www.novusbio.com/publications](http://www.novusbio.com/publications)

