

# Product Datasheet

## Lightning-Link (R) Alkaline Phosphatase Antibody Labeling Kit 702-0015

Unit Size: 1 mg

Store at -20C.

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**702-0015****Lightning-Link (R) Alkaline Phosphatase 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 -20C.
<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 Alkaline Phosphatase antibody labeling kit enables the direct conjugation of Alkaline Phosphatase to any biomolecule with an available amine group. The researcher simply pipettes their antibody or other biomolecule into the vial of Lightning-Link label and incubates for 3 hours.</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 (AP) 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>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>	LL-Modifier reagent (1vial), LL-Quencher reagent (1vial), Lightning-Link (R) mix (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

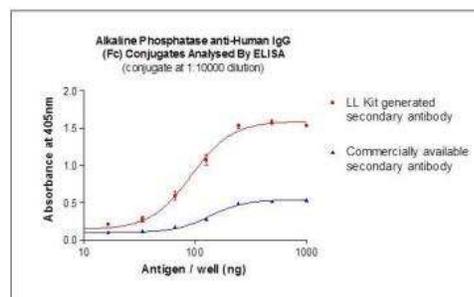


**Application Notes**

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 can be used to label up to 1 mg of antibody, and is supplied in one vial.

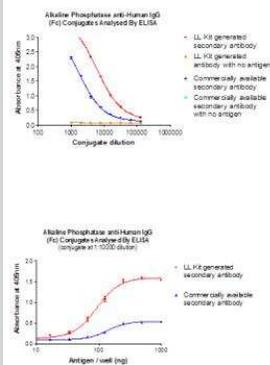
**Images**

ELISA: Lightning-Link Alkaline Phosphatase Antibody Labeling Kit [702-0015]



A mouse monoclonal antibody specific for human IgG was purchased from a commercial source in both unconjugated and alkaline phosphatase conjugated formats. The unconjugated antibody was linked to Alkaline Phosphatase using a Lightning Link kit, and the two conjugates were compared in ELISA as shown. The Lightning Link conjugated antibody demonstrates increased sensitivity.

ELISA: Lightning-Link Alkaline Phosphatase Antibody Labeling Kit [702-0015]



## Publications

Grabias B, Verma N, Zheng H et al. A no film slot blot for the detection of developing *P. falciparum* oocysts in mosquitoes. *PLoS One*. 2017-04-21 [PMID: 28430778]

Simoes PBA, Campbell M, Viora L et al. Pilot study into milk haptoglobin as an indicator of udder health in heifers after calving. *Res Vet Sci*. 2017-05-23 [PMID: 28601196]

Robertson AS, Majchrzak MJ, Smith CM et al. Dramatic elevation in urinary amino terminal titin fragment excretion quantified by immunoassay in Duchenne muscular dystrophy patients and in dystrophin deficient rodents. *Neuromuscul Disord* 2017-03-12 [PMID: 28554556]

Mechaly A, Cohen H, Cohen O, Mazor O. A biolayer interferometry-based assay for rapid and highly-sensitive detection of biowarfare agents. *Anal Biochem*. 2016-08-01 [PMID: 27156814]

Thomas FC, Waterston M, Hastie P et al. The major acute phase proteins of bovine milk in a commercial dairy herd. *BMC Vet Res*. 2015-08-15 [PMID: 26276568]

Kanmert D, Cantlon A, Muratore CR et al. C-Terminally Truncated Forms of Tau, But Not Full-Length Tau or Its C-Terminal Fragments, Are Released from Neurons Independently of Cell Death . *J Neurosci*. 2015-07-29 [PMID: 26224867]

Marits P, Landucci L, Sundin U et al. Trough s-infliximab and antibodies towards infliximab in a cohort of 79 IBD patients with maintenance infliximab treatment. *J Crohns Colitis* 2014-01-01 [PMID: 24486178] (IA)

Touzard E, Reinaud P, Dubois O et al. Specific expression patterns and cell distribution of ancient and modern PAG in bovine placenta during pregnancy. *Reproduction* 2013-01-01 [PMID: 23858478]

Fagerhol MK, Larsen A, Brun JG et al. Large molecular size EDTA-resistant complexes containing S100A12, ERAC, in serum during inflammatory conditions. *Scandinavian Journal of Clinical & Laboratory Investigation* 2012-01-01 [PMID: 22248048]

Ferrara F, Listwan P, Waldo GS, Bradbury AR. Fluorescent Labeling of Antibody Fragments Using Split GFP. *PLoS One* 2011-01-01 [PMID: 21998685] (IA)

Burastero SE, Frigerio B, Lopalco L et al. Broad-Spectrum Inhibition of HIV-1 by a Monoclonal Antibody Directed against a gp120-Induced Epitope of CD4 H67. *PLoS One* 2011-01-01 [PMID: 21818294] (IA)

Charbonneau NL, Carlson EJ, Tufa S et al. In Vivo Studies of Mutant Fibrillin-1 Microfibrils. *J Biol Chem* 2010-01-01 [PMID: 20529844] (IA)

More publications at <http://www.novusbio.com/702-0015>





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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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