

# Product Datasheet

## Lightning-Link (R) Streptavidin Antibody Labeling Kit 708-0015

Unit Size: 1 mg

Store at -20C.

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**708-0015****Lightning-Link (R) Streptavidin 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>	Streptavidin
<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 streptavidin antibody labeling kit enables the direct conjugation of streptavidin to any biomolecule with an available amine group. The researcher simply pipettes their antibody or other biomolecule into the vial of Lightning-Link Streptavidin 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>Streptavidin is a 53kDa protein purified from <i>Streptomyces avidinii</i>, which has widespread applications due to its very high affinity to the vitamin biotin. Streptavidin is a tetrameric molecule, composed of 4 13kDa monomers, each of which can bind a molecule of biotin.</p> <p>The Lightning-Link Streptavidin kit is unique in the sense that it is the only DIY streptavidin labeling kit available on the market. Like our biotinylation kits, Lightning-Link Streptavidin has been optimised to create high quality conjugates and minimise assay background. There is also no need for a wash or desalting step. The way in which the kits are optimised means the antibody or protein of interest will be labeled with up to 3 streptavidin molecules each, maximising the opportunity for biotin to bind and create a biotin streptavidin complex.</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 mix, 1 vial of LL-Modifier reagent, 1 vial of LL-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 can be used to label up to 1 mg of antibody, and is supplied in one vial.</p>
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## Publications

- Pinder CL, Kratochvil S, Cizmeci D. Isolation and Characterization of Antigen-Specific Plasmablasts Using a Novel Flow Cytometry Based Ig Capture Assay. J Immunol. 2017-12-15 [PMID: 29118244]
- Antyborzec I, O'Leary VB, Dolly JO, Ovsepian SV. Low-Affinity Neurotrophin Receptor p75 Promotes the Transduction of Targeted Lentiviral Vectors to Cholinergic Neurons of Rat Basal Forebrain. Neurotherapeutics. 2016-01-01 [PMID: 27220617]
- Wawrzyniak M, Ochsner U, Wirz O et al. A novel, dual cytokine-secretion assay for the purification of human Th22 cells that do not co-produce IL-17A. Allergy. 2016-01-01 [PMID: 26392196]
- Mann JF, Tregoning JS, Aldon Y et al. CD71 targeting boosts immunogenicity of sublingually delivered influenza haemagglutinin antigen and protects against viral challenge in mice J Control Release 2016-06-28 [PMID: 27094605] (WB)
- Madritsch C, Eckl-Dorna J, Blatt K et al. Antibody conjugates bispecific for intercellular adhesion molecule 1 and allergen prevent migration of allergens through respiratory epithelial cell layers. J Allergy Clin Immunol. 2015-01-01 [PMID: 25769914] (ELISA, FLOW)
- Mallen M, Diaz-Gonzalez M, Bonilla D et al. Reusable conductimetric array of interdigitated microelectrodes for the readout of low-density microarrays. Anal Chim Acta. 2014-01-01 [PMID: 24890693] (IA)
- Wienken U, Gaub HE. Stamping Vital Cells-a Force-Based Ligand Receptor Assay. Biophys J. 2013-01-01 [PMID: 24359740]
- Halpern MD, Jain S, Jewett MW. Enhanced detection of host response antibodies to *Borrelia burgdorferi* using immuno-PCR. Clin Vaccine Immunol 2013-01-01 [PMID: 23302740] (IA)
- Taylor RM, Sillerud LO. Paclitaxel-loaded iron platinum stealth immunomicelles are potent MRI imaging agents that prevent prostate cancer growth in a PSMA-dependent manner International Journal of Nanomedicine 2012-01-01 [PMID: 22915856]
- Yomogida K, Chou Y, Pang J et al. Streptavidin suppresses T cell activation and inhibits IL-2 production and CD25 expression Cytokine 2012-01-01 [PMID: 22410319]
- Kreuz G, Zagon J, Broll H et al. Immunological detection of osteocalcin in meat and bone meal: a novel heat stable marker for the investigation of illegal feed adulteration Food Additives & Contaminants: Part A 2011-01-01 [PMID: 22300169] (IA)
- Yoo SY, Oh JW, Lee SW. Phage-Chips for Novel Optically Readable Tissue Engineering Assays Langmuir 2011-01-01 [PMID: 22149649]
- More publications at <http://www.novusbio.com/708-0015>





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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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