

Product Datasheet

Lightning-Link (R) Rapid Atto488 Antibody Labeling Kit 350-0010

Unit Size: 3 x 100ug Reaction

Store at -20C.

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350-0010**Lightning-Link (R) Rapid Atto488 Antibody Labeling Kit**

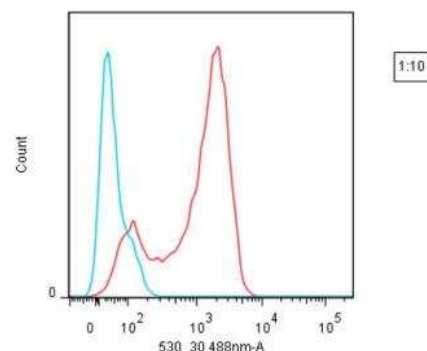
Product Information	
Unit Size	3 x 100ug Reaction
Concentration	Concentration is not relevant for this product. Please see the protocols for proper use of this product.
Storage	Store at -20C.
Conjugate	Atto488
Product Description	
Description	<p>Lightning-Link Rapid is an innovative technology that enables direct labeling of proteins, peptides or other biomolecules for use in R&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>Features Quick and easy to use Benefits 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&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>Atto488 is one of a new generation of fluorescent labels, which has been optimised for excitation with an argon laser. It has a strong absorption at 504nm, high fluorescence at 530nm (extinction coefficient $9.0 \times 10^4 \text{ cm}^{-1}\text{M}^{-1}$) and high quantum yield.</p> <p>Learn more about Lightning-Link™ Conjugation Kits by reading FAQs</p> <p>For more information please check out these useful links! Antibody Labeling Guide Antibody Conjugation Illustrated Assay</p>
Kit Components	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
Notes	<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 technical@novusbio.com with questions.</p>

Product Application Details

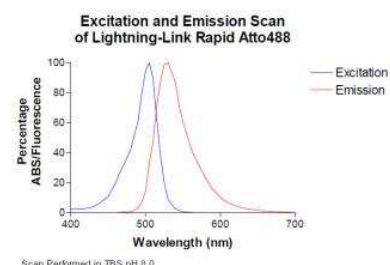
Applications	Flow Cytometry
Recommended Dilutions	Flow Cytometry
Application Notes	By circumventing the desalting or dialysis steps that commonly interrupt traditional antibody conjugation procedures, LightningLink technology can be used to label both small (e.g. 10 ug) and large quantities of primary antibodies with ease. Batch-to-batch variation upon scale up is minimal as the process is so simple, and recoveries are always 100%.

Images

Flow Cytometry: Lightning-Link Rapid Atto488 Antibody Labeling Kit [350-0010] - Mouse anti-human CD3 was conjugated with Atto488 using Lightning-Link® Rapid kit. The conjugated antibody was then used to stain human peripheral blood lymphocytes, followed by analysis with flow cytometry. (Blue line - negative control; red line - positive staining).



Lightning-Link Rapid Atto488 Antibody Labeling Kit [350-0010]



Absorbance Max (nm)	Emission Max (nm)	Extinction Coefficient (cm ² M ⁻¹)	Fluorescent Colour	Stokes Shift
501	523	90000	Green	22

Publications

Carignan D, Herblot S, Laliberte-Gagne ME Activation of innate immunity in primary human cells using a plant virus derived nanoparticle TLR7/8 agonist. *Nanomedicine*. 2017-11-08 [PMID: 29128662]

Hernandez LD, Kroh HK, Hsieh E et al. Epitopes and Mechanism of Action of the Clostridium Difficile Toxin A-Neutralizing Antibody Actoxumab. *J. Mol. Biol.* 2017-02-20 [PMID: 28232034] (ICC/IF)

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

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Robinson AP, Rodgers JM, Goings GE, Miller SD. Characterization of Oligodendroglial Populations in Mouse Demyelinating Disease Using Flow Cytometry: Clues for MS Pathogenesis. *PLoS One* 2014-01-01 [PMID: 25247590] (FLOW)

Olling A, Huls C, Goy S et al. The Combined Repetitive Oligopeptides of Clostridium difficile Toxin A Counteract Premature Cleavage of the Glucosyl-Transferase Domain by Stabilizing Protein Conformation. *Toxins* 2013-01-01 [PMID: 25054784] (FLOW)

Chang JC, Liu KH, Chuang CS et al. Treatment of human cells derived from MERRF syndrome by peptide-mediated mitochondrial delivery. *Cytotherapy* 2013-01-01 [PMID: 24199594]

Huang SL, Chou TC, Lin TH et al. Gcse, a Novel Germ-Cell-Specific Gene, Is Differentially Expressed During Meiosis and Gametogenesis. *Reprod Sci* 2013-01-01 [PMID: 23456662] (ICC/IF)

Almer G, Frascione D, Pali-Scholl I et al. Interleukin-10: an anti-inflammatory marker to target atherosclerotic lesions via PEGylated liposomes. *Mol Pharm*. 2012-01-01 [PMID: 23176185] (IF/IHC)

Eichwald C, Arnoldi F, Laimbacher AS et al. Rotavirus Viroplasm Fusion and Perinuclear Localization Are Dynamic Processes Requiring Stabilized Microtubules. *PLoS One* 2012-01-01 [PMID: 23110139] (ICC/IF)

Le Bacquer O, Kerr-Conte J, Gargani S et al. TCF7L2 rs7903146 impairs islet function and morphology in non-diabetic individuals. *Diabetologia* 2012-01-01 [PMID: 22911383] (IF/IHC)

Liang JJ, Yu CY, Liao CL, Lin YL. Autophagy is involved in the early step of Japanese encephalitis virus infection. *Microbes Infect* 2011-01-01 [PMID: 21946213] (ICC/IF)

More publications at <http://www.novusbio.com/350-0010>





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

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