

Product Datasheet

Lightning-Link (R) Rapid Atto633 Antibody Labeling Kit 353-0010

Unit Size: 3 x 100ug Reaction

Store at -20C.

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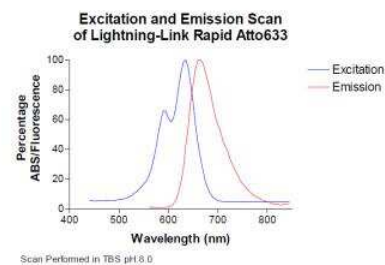
353-0010**Lightning-Link (R) Rapid Atto633 Antibody Labeling Kit**

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	Atto633
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>Atto633 is one of a new generation of fluorescent labels. It has a strong absorption at 634nm, high fluorescence at 660nm (extinction coefficient $1.3 \times 10^5 \text{ cm}^{-1}\text{M}^{-1}$) and high quantum yield. Atto633 can be used as a substitute dye for DY-633, LightCycler Red 640, Alexa Fluor 633, and Cy 5.</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

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**Lightning-Link Rapid Atto633 Antibody Labeling Kit [353-0010]**

Absorbance Max (nm)	Emission Max (nm)	Extinction Coefficient (cm ² M ⁻¹)	Fluorescent Colour	Stokes Shift
629	657	130000	Red	28

Publications

Bonnaud EM, Szelechowski M, Betourne A et al. Borna disease virus phosphoprotein modulates epigenetic signaling in neurons to control viral replication J Virol. 2015-06-01 [PMID: 25810554] (FLOW)

Chang YF, Yu JS, Chang YT et al. The utility of a high-throughput scanning biosensor in the detection of the pancreatic cancer marker ULBP2. Biosens Bioelectron. 2012-01-01 [PMID: 22959016]

Makiya M, Dolan M, Agulto L et al. Structural basis of anthrax edema factor neutralization by a neutralizing antibody. Biochem Biophys Res Commun. 2011-01-01 [PMID: 22155239] (FLOW)

Wauters J, Franck T, Pille F et al. Flow cytometric detection of myeloperoxidase in horse neutrophils: a novel technique in equine diagnostic research. Vet Immunol Immunopathol 2011-01-01 [PMID: 22018886] (FLOW)

Chang YF, Hung SH, Lee YJ et al. Discrimination of Breast Cancer by Measuring Prostate-Specific Antigen Levels in Women's Serum. Anal Chem. 2011-01-01 [PMID: 21591802] (IA)

Su LC, Chang YF, Chou C et al. Binding Kinetics of Biomolecule Interaction at Ultralow Concentrations Based on Gold Nanoparticle Enhancement. Anal Chem. 2011-01-01 [PMID: 21466206] (IA)

Swain SD, Meissner N, Han S, Harmsen A. Pneumocystis Infection in an Immunocompetent Host Can Promote Collateral Sensitization to Respiratory Antigens. Infect Immun 2011-01-01 [PMID: 21343358] (FLOW)

Chang YF, Wang SF, Huang JC et al. Detection of swine-origin influenza A (H1N1) viruses using a localized surface plasmon coupled fluorescence fiber-optic biosensor. Biosens Bioelectron. 2010-01-01 [PMID: 20855191] (IA)





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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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