

Product Datasheet

Lightning-Link (R) Rapid DyLight 488 Antibody Labeling Kit

322-0010

Unit Size: 3 x 100ug Reaction

Store at -20C.

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322-0010**Lightning-Link (R) Rapid DyLight 488 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	DyLight 488
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>FeaturesQuick and easy to use BenefitsSave 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>DyLight 488 provides green fluorescence for a wide array of fluorescence labeling-based applications. It has a strong absorption at 496nm, high fluorescence at 524nm (extinction coefficient 7.0 x10⁴ cm⁻¹M⁻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>

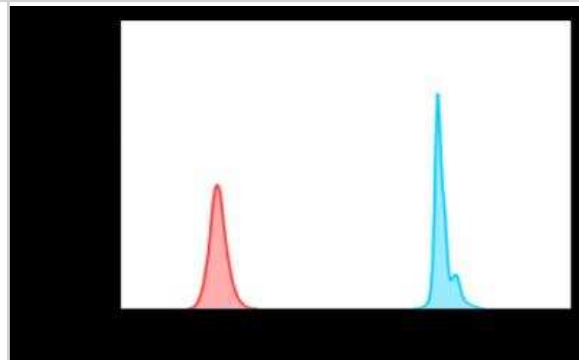
Product Application Details

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%. This kit is supplied with 3 vials, each suitable for labeling up to 200 ug of antibody.

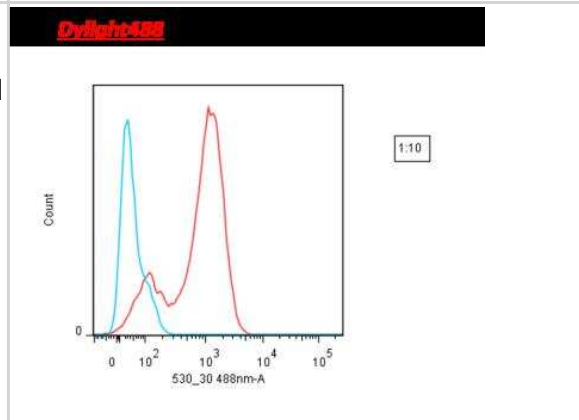


Images

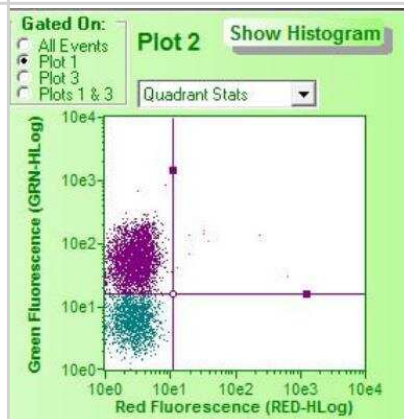
Flow Cytometry: Lightning-Link (R) Rapid DyLight 488 Antibody Labeling Kit [322-0010] - DL488 labeled virus detected with antibody-coated beads. Flow cytometry image submitted by a verified customer review.



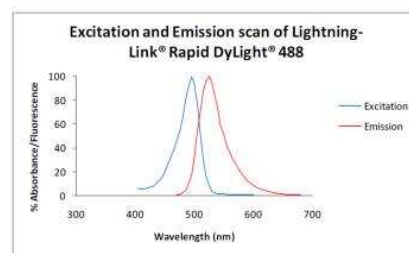
Flow Cytometry: Lightning-Link Rapid DyLight 488 Antibody Labeling Kit [322-0010] - Mouse anti-human CD3 was conjugated with Dylight® 488 using Lightning-Link® Rapid kit. The conjugated antibody was then used to stain human peripheral blood lymphocytes, followed by analysis with flow cytometry. (Blue line - negative control; red line - positive staining).



Flow Cytometry: Lightning-Link Rapid DyLight 488 Antibody Labeling Kit [322-0010] - Mouse anti-duck CD4 was conjugated with DyLight 488 using a Lightning-Link Rapid kit. The conjugated antibody was used for flow cytometry. Image from verified customer review.



Lightning-Link Rapid DyLight 488 Antibody Labeling Kit [322-0010]



Scan performed in TBS pH 8.0

Absorbance Max (nm)	Emission Max (nm)	Extinction Coefficient (cm ² M ⁻¹)	Fluorescent Colour	Stokes Shift
493	518	70000	Green	25



Publications

Wimmers F, Donato M, Kuo A et al. The single-cell epigenomic and transcriptional landscape of immunity to influenza vaccination *Cell* 2021-07-01 [PMID: 34174187]

Garreta E, Prado P, Tarantino C et al. Fine tuning the extracellular environment accelerates the derivation of kidney organoids from human pluripotent stem cells *Nature Materials* 2019-04-01 [PMID: 30778227] (ELISA)

Leetah Celine Senkpeil Identifying Immunological Signatures in Blood Predictive of Host Response to Plasmodium falciparum Vaccines and Infections Using Computational Methods Thesis 2023-01-01

Leetah Celine Senkpeil Identifying Immunological Signatures in Blood Predictive of Host Response to Plasmodium falciparum Vaccines and Infections Using Computational Methods Thesis 2023-01-01

Hollandsworth HM, Schmitt V, Amirfakhri S et al. Fluorophore-conjugated Helicobacter pylori recombinant membrane protein (HopQ) labels primary colon cancer and metastases in orthotopic mouse models by binding CEA-related cell adhesion molecules *Transl Oncol* 2020-08-28 [PMID: 32866936]

Iwao Y, Tomiguchi I, Domura A, Mantaira Y. Inflamed site-specific drug delivery system based on the interaction of human serum albumin nanoparticles with myeloperoxidase in a murine model of experimental colitis. *Eur J Pharm Biopharm.* 2018-01-30 [PMID: 29407223] (FLOW)

Simanjuntak Y, Liang JJ, Lee YL et al. Japanese Encephalitis Virus Exploits Dopamine D2 Receptor-phospholipase C to Target Dopaminergic Human Neuronal Cells. *Front Microbiol* 2017-04-11 [PMID: 28443089]

Mellema M, Stoller M, Queau Y et al. Nanoparticle Tracking Analysis for the Enumeration and Characterization of Mineralo-Organic Nanoparticles in Feline Urine. *PLoS One.* 2016-12-22 [PMID: 28005930]

Schmiedel D, Tai J, Levi-Schaffer F et al. Human Herpesvirus 6 downregulates the expression of activating ligands during lytic infection to escape elimination by natural killer cells. *J Virol.* 2016-10-14 [PMID: 27535049]

Crawford JR, Trial J, Nambi V et al. Plasma Levels of Endothelial Microparticles Bearing Monomeric C-reactive Protein are Increased in Peripheral Artery Disease *J Cardiovasc Transl Res.* 2016-02-18 [PMID: 26891844] (FLOW)

Kerkela E, Laitinen A, Rabina J et al. Adenosinergic immunosuppression by human mesenchymal stromal cells (MSCs) requires co-operation with T cells *Stem Cells* 2016-03-01 [PMID: 26731338] (FLOW)

Keeley EC, Schutt RC, Marinescu MA et al. Circulating fibrocytes as predictors of adverse events in unstable angina *Transl Res.* 2016-03-08 [PMID: 27012475] (FLOW)

More publications at <http://www.novusbio.com/322-0010>





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