Product Datasheet

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

322-0015

Unit Size: 1 mg

Store at -20C.

www.novusbio.com technical@novusbio.com

Publications: 8

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
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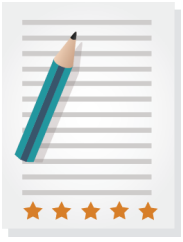
Updated 10/23/2024 v.20.1



322-0015

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

Product Information

Unit Size	1 mg
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

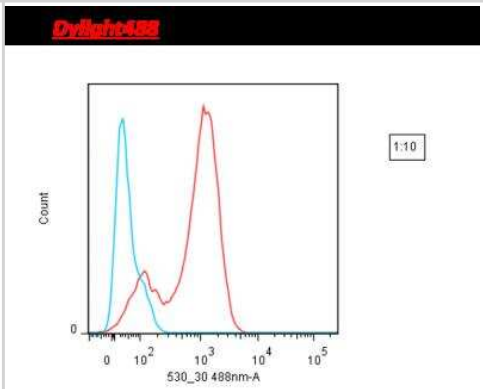
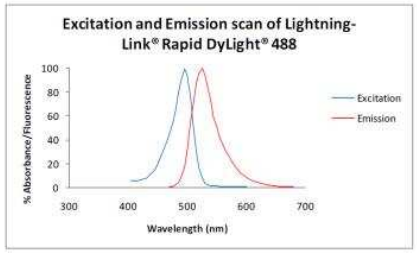
Product Description

Description	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). 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. 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). **FeaturesBenefits**Quick and easy to useSave time, no special knowledge requiredNo separation steps100% recovery - no antibody/protein lossCan be used in a wide range of applicationsFlexibleFreeze driedShips at ambient temperature, long shelf-lifeFully scalable (10 ug to 1 g or more)Easy transfer from R&D to manufacturingStringently QC testedConsistent high quality, excellent batch-to-batch reproducibilityLarge number of labels available Experimental flexibilityReliable: nearly 300 referencesSuccessfully used in many fields of research 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. Learn more about Lightning-Link™ Conjugation Kits by reading FAQs For more information please check out these useful links! Antibody Labeling Guide Antibody Conjugation Illustrated Assay
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	This product is manufactured by Abcam and distributed by Novus Biologicals. 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.

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 can be used to label up to 2mg of antibody, and is supplied in one vial.

Images

Flow Cytometry: Lightning-Link Rapid DyLight 488 Antibody Labeling Kit [322-0015] - 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).	
Lightning-Link Rapid DyLight 488 Antibody Labeling Kit [322-0015]	 Scan performed in TBS pH 8.0

Absorbance Max (nm)	Emission Max (nm)	Extinction Coefficient ($cm^{-1} M^{-1}$)	Fluorescent Colour	Stokes Shift
493	518	70000	Green	25

Publications

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]

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)

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)

Cumpelik A, Gerossier E, Jin J et al. Mechanism of Platelet Activation and Hypercoagulability by Antithymocyte Globulins (ATG) Am J Transplant. 2015-10-01 [PMID: 25966640] (FLOW)

Wu Y, Simons J, Hooson S et al. Protein and virus-like particle adsorption on perfusion chromatography media. J Chromatogr A. 2013-01-01 [PMID: 23726244]

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

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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