Product Datasheet

Lightning-Link (R) Rapid Atto488 Antibody Labeling Kit 350-0030

Unit Size: 3 x 10ug Reaction

Store at -20C.

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Publications: 17

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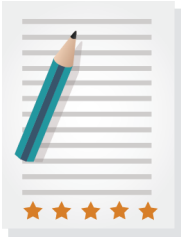
Updated 10/23/2024 v.20.1



350-0030

Lightning-Link (R) Rapid Atto488 Antibody Labeling Kit

Product Information

Unit Size	3 x 10ug 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

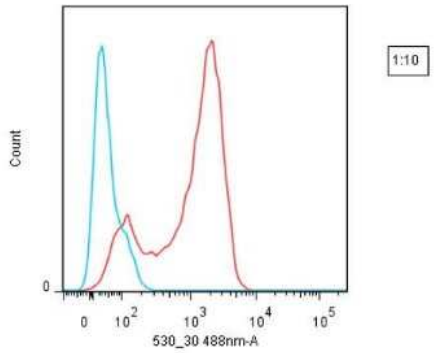
Product Description

Description	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 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 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	Electron Microscopy, Flow Cytometry
Recommended Dilutions	Flow Cytometry, Electron Microscopy
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 [350-0030] - 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).	

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]

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)

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

Zhao H, Chiaro CR, Zhang L et al. Quantitative Analysis of Purine Nucleotides Indicates Purinosomes Increase de Novo Purine Biosynthesis. J Biol Chem. 2015-01-01 [PMID: 25605736] (ICC/IF)

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/350-0030

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