Product Datasheet

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

322-0005

Unit Size: 100 ug

Store at -20C.

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Publications: 3

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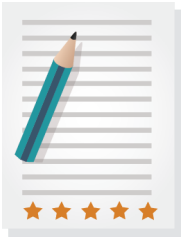
Updated 10/23/2024 v.20.1



322-0005

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

Product Information

Unit Size	100 ug
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(R) 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 496 nm, high fluorescence at 524 nm (extinction coefficient 7.0 x10^4 cm-1M-1) and high quantum yield. 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 200 ug of antibody, and is supplied in one vial. 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 glass vial of Lightning-Link Rapid mix, 1 vial of LL-Rapid Modifier reagent, 1 vial of LL-Rapid Quencher reagent

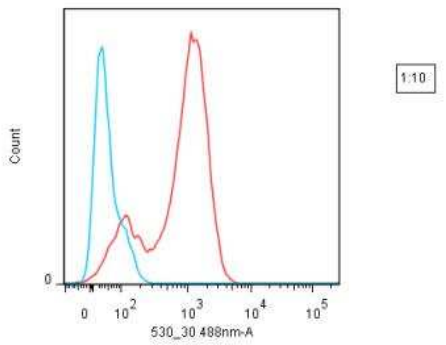
Notes	This product is manufactured by Abcam and distributed by Novus Biologicals. This product is for research use only and is not approved for use in humans or in clinical diagnosis. This product is guaranteed for 1 year from date of receipt and this statement overrides any mentioned guarantee period 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	NOTE: This kit is shipped on polar packs. Store at -20C upon receipt. The Modifier and Quencher reagents can be stored at either at 4C or -20C after initial thawing.

Images

Lightning-Link Rapid DyLight 488 Antibody Labeling Kit [322-0005] - Mouse anti-human CD3 was conjugated with DyLight 488 using an Expedeon Rapid Lightning-Link 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

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]

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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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