

Product Datasheet

Lightning-Link (R) Alkaline Phosphatase Antibody Labeling Kit 702-0010

Unit Size: 3 x 100ug Reaction

Store at -20C.

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702-0010**Lightning-Link (R) Alkaline Phosphatase Antibody Labeling Kit**

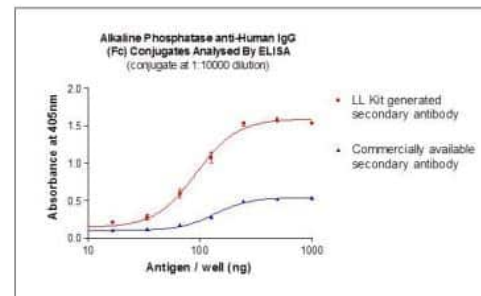
Product Information	
Unit Size	3 x 100ug Reaction
Concentration	Concentration is not relevant for this product. Please see the protocols for proper use of this product.
Storage	Store at -20C.
Conjugate	Alkaline Phosphatase
Buffer	
Product Description	
Description	<p>Lightning-Link antibody labeling kits enable the direct labeling of antibodies, 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>Our Alkaline Phosphatase antibody labeling kit enables the direct conjugation of Alkaline Phosphatase to any biomolecule with an available amine group. The researcher simply pipettes their antibody or other biomolecule into the vial of Lightning-Link label and incubates for 3 hours.</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>Alkaline phosphatase (AP) is a hydrolyase enzyme that is frequently conjugated to antibodies for use in immunoassays. PNPP is a popular colorimetric substrate for AP; the product of the reaction, p-nitrophenol, can be read at 405nm. Fluorogenic substrates (e.g. 4-methylumbelliferyl phosphate; MUP) may also be employed.</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 mix, 1 vial of LL-Modifier reagent, 1 vial of LL-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	ELISA



Recommended Dilutions	ELISA
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 100 ug of antibody.

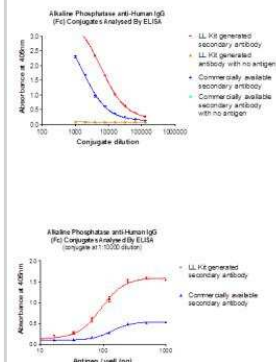
Images

ELISA: Lightning-Link Alkaline Phosphatase Antibody Labeling Kit [702-0010]



A mouse monoclonal antibody specific for human IgG was purchased from a commercial source in both unconjugated and alkaline phosphatase conjugated formats. The unconjugated antibody was linked to Alkaline Phosphatase using a Lightning Link kit, and the two conjugates were compared in ELISA as shown. The Lightning Link conjugated antibody demonstrates increased sensitivity.

ELISA: Lightning-Link Alkaline Phosphatase Antibody Labeling Kit [702-0010]



Publications

Davies G, Singh O, Prattes J et al. Aspergillus fumigatus and Its Allergenic Ribotoxin Asp f I: Old Enemies but New Opportunities for Urine-Based Detection of Invasive Pulmonary Aspergillosis Using Lateral-Flow Technology Journal of Fungi 2020-12-31 [PMID: 33396482]

Davies GE, Thornton CR. Development of a Monoclonal Antibody and a Serodiagnostic Lateral-Flow Device Specific to Rhizopus arrhizus (Syn. R. oryzae), the Principal Global Agent of Mucormycosis in Humans Journal of Fungi 2022-07-21 [PMID: 35887511]

Grabias B, Verma N, Zheng H et al. A no film slot blot for the detection of developing P. falciparum oocysts in mosquitoes. PLoS One. 2017-04-21 [PMID: 28430778]

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Robertson AS, Majchrzak MJ, Smith CM et al. Dramatic elevation in urinary amino terminal titin fragment excretion quantified by immunoassay in Duchenne muscular dystrophy patients and in dystrophin deficient rodents. Neuromuscul Disord 2017-03-12 [PMID: 28554556]

Mechaly A, Cohen H, Cohen O, Mazor O. A biolayer interferometry-based assay for rapid and highly-sensitive detection of biowarfare agents. Anal Biochem. 2016-08-01 [PMID: 27156814]

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Marits P, Landucci L, Sundin U et al. Trough s-infliximab and antibodies towards infliximab in a cohort of 79 IBD patients with maintenance infliximab treatment. J Crohns Colitis 2014-01-01 [PMID: 24486178] (IA)

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Ferrara F, Listwan P, Waldo GS, Bradbury AR. Fluorescent Labeling of Antibody Fragments Using Split GFP. PLoS One 2011-01-01 [PMID: 21998685] (IA)

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