

Product Datasheet

Thunder-Link (R) PLUS oligo Antibody Conjugation Kit 425-0000

Unit Size: 100 ug

Storage of components varies. See protocol for specific instructions.

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425-0000**Thunder-Link (R) PLUS oligo Antibody Conjugation 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	Storage of components varies. See protocol for specific instructions.
Product Description	
Description	<p>Thunder-Link PLUS enables simple and rapid conjugation of antibodies to oligonucleotides, with high recovery of materials and a superior clean-up procedure. The kit is quick and simple to use, overcoming time consuming and lengthy protocols associated with standard conjugation methods.</p> <p>Features Quick and easy to use Benefits Save time, no specialist knowledge required High levels of antibody and oligo recovery Save precious reagents Use your own oligo and antibody, at your desired ratio Flexible Freeze dried Ships at ambient temperature, long shelf-life Stringently QC tested Consistent high quality, excellent batch-to-batch reproducibility Unidirectional chemistry No risk of cross-linking Suitable for single-stranded oligos of 10-120 bases, double-stranded oligos up to 80 base pairs Covers the majority of sequences Linking chemistry works at both 5' and 3' end Provides ability to combine with other modifications Post-conjugation clean-up step No interference from unbound oligo Positive control antibody and oligo included Enables confirmation of protocol success Wide range of target proteins Also applicable to antibody fragments and small proteins</p> <p>Advantages of Thunder-Link PLUS:</p> <ul style="list-style-type: none"> • Only 30 minutes antibody and oligo activation • Fast oligo conjugation – now only 1 hour! • High antibody and oligo recovery • Robust and flexible clean-up procedure (now works with antibody fragments and other proteins)
Kit Components	Thunder-Link PLUS Oligo Activation Reagent (2 or 4 glass vials depending on pack size), Thunder-Link PLUS Antibody Activation Reagent (2 or 4 vials depending on pack size), Freeze dried control oligo (1 vial), Freeze dried control antibody (1 vial), Separating columns (4 or 8 EA depending on pack size), 1X Thunder-Link PLUS Wash buffer (80 mL or 160 mL depending on pack size), Thunder-Link PLUS Conjugate Clean Up Reagent (1 or 2 vials depending on pack size)
Notes	<p>Thunder-Link® is a registered trademark of 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	In vitro assay
Recommended Dilutions	In vitro assay

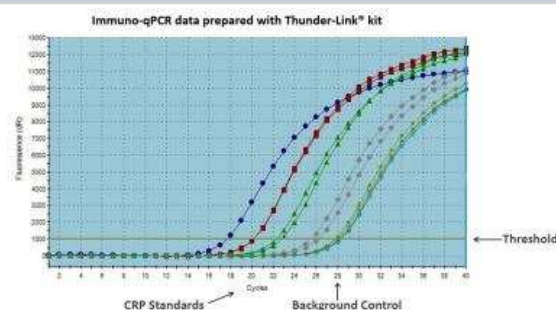


Application Notes

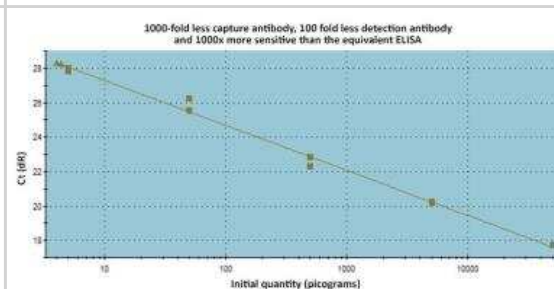
Warm the Thunder-Link PLUS Conjugate Clean Up Reagent by placing the tube in warm water (not warmer than 40C) for 10 minutes, then shaking to re-dissolve the contents. Once dissolved, maintain the tube at ~22C to prevent any crystal formation before use.

Images

In vitro assay: Thunder-Link (R) PLUS oligo Antibody Labeling Kit [425-0000] - Immuno-qPCR data generated using Thunder-Link. A mouse monoclonal antibody specific for human CRP (clone C7) was purchased in unconjugated format from HyTest. The antibody was conjugated to an oligonucleotide using a Thunder-Link kit, and was used as a detection antibody in a sandwich immuno-PCR assay with a polyclonal anti-CRP antibody as the capture reagent. The graph shows a plot of the number of PCR cycles undertaken vs. fluorescence intensity generated by SYBR Green containing PCR probes at particular antigen concentrations.



In vitro assay: Thunder-Link (R) PLUS oligo Antibody Labeling Kit [425-0000] - The graph shows this data following conversion to antigen amount vs. cycle number to enable the calculation of a standard curve. The results show that the assay utilizes 1000-fold less capture antibody and 100-fold less detection antibody, and provides 1000-fold greater sensitivity than the equivalent ELISA.





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Limitations

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