

Product Datasheet

InnovaCoat (R) Gold - 20nm Mini Maleimide Antibody Labeling Kit 271-0005

Unit Size: 50 ug

Store at -20C.

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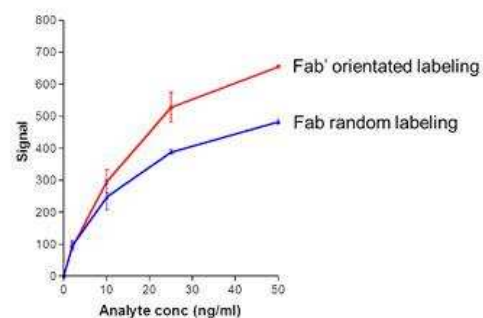


271-0005**InnovaCoat (R) Gold - 20nm Mini Maleimide Antibody Labeling Kit**

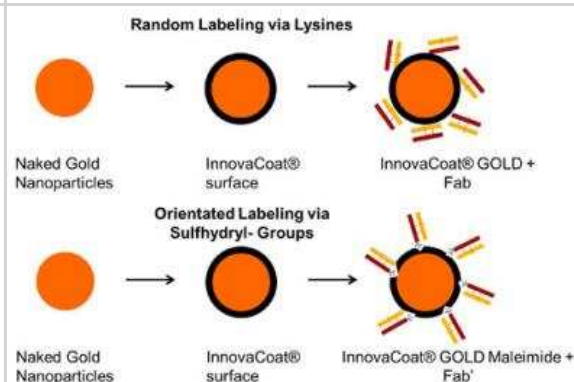
Product Information	
Unit Size	50 ug
Concentration	Concentration is not relevant for this product. Please see the protocols for proper use of this product.
Storage	Store at -20C.
Product Description	
Description	<p>The InnovaCoat GOLD-Maleimide antibody labeling kit allows thiolated molecules (e.g. antibodies, Fab' fragments, or other sulfhydryl-containing biomolecules) to be covalently attached to ultra-stable InnovaCoat GOLD nanoparticles at very high OD quickly and easily.</p> <p>The researcher simply has to pipette the solution of the thiol-activated molecule to the vial of InnovaCoat GOLD maleimide. The hands-on time for the procedure is about 5 minutes and the conjugate is ready to use within 1 hour.</p> <p>The InnovaCoat protective coating completely shields the biomolecule from the metal surface thus eliminating metal-antibody interactions and reducing the risk of sub-optimal antibody performance (e.g. loss of affinity or denaturation, especially of small antibody fragments). Moreover, the covalently attached molecule is not prone to dissociation which is a major problem with direct thiol-to-gold metal conjugations.</p> <p>InnovaCoat GOLD-Maleimide nanoparticles in this kit are supplied as a freeze dried mixture. The conjugation reaction is initiated simply by adding a solution of the thiolated biomolecule, which becomes attached to the InnovaCoat surface by a covalent reaction with maleimide groups.</p> <p>Features Oriented labeling Benefits Oligonucleotides, and the antigen binding sites of antibodies are free to bind the target molecule Proprietary surface coating prevents metal-protein interactions Covalent bond, stable conjugates formed Different nanoparticle sizes and amounts available Flexible Freeze dried Ships at ambient temperature, long shelf-life Fully scalable Easy transfer from R&D to manufacturing Stringently QC tested: uniform spherical shape and narrow size distribution Consistent high quality, excellent batch-to-batch reproducibility</p>
Kit Components	1 vial (1 reaction Midi kit) or 3 vials (3 reaction Mini Kit) of InnovaCoat® GOLD Maleimide, 1 vial of InnovaCoat® GOLD Maleimide Reaction Buffer, 1 vial or bottle of InnovaCoat® GOLD Maleimide Diluent, 1 vial of InnovaCoat® GOLD Maleimide Quencher
Notes	<p>InnovaCoat GOLD® 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>

Images

InnovaCoat Gold - 20nm Mini Maleimide Antibody Labeling Kit [271-0005] - Lateral flow assay demonstrates increased performance of orientated (Fab'-InnovaCoat GOLD-Maleimide) vs. random (Fab-InnovaCoat GOLD) labeling. All components of the lateral flow assay are identical with the exception of the method used to conjugate the Fab' to InnovaCoat GOLD-Maleimide or Fab to InnovaCoat GOLD. Fab and Fab' fragments were derived from the same antibody.



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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.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

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