

# Product Datasheet

## InnovaCoat (R) GOLD - 40nm Mini Maleimide Antibody Labeling Kit 270-0005

Unit Size: 3 Vials

Store at -20C.

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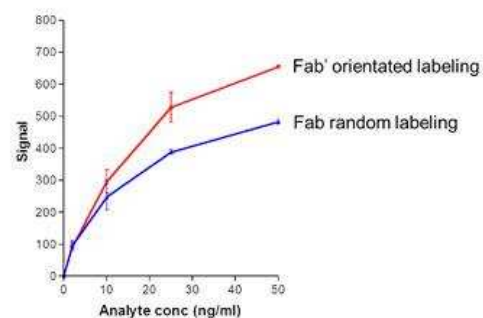
**270-0005****InnovaCoat (R) GOLD - 40nm Mini Maleimide Antibody Labeling Kit**

<b>Product Information</b>	
<b>Unit Size</b>	3 Vials
<b>Concentration</b>	Concentration is not relevant for this product. Please see the protocols for proper use of this product.
<b>Storage</b>	Store at -20C.
<b>Product Description</b>	
<b>Description</b>	<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><b>Features</b> Oriented labeling of oligonucleotides, and the antigen binding sites of antibodies are free to bind the target molecule  <b>Benefits</b> 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&amp;D to manufacturing  Stringently QC tested: uniform spherical shape and narrow size distribution  Consistent high quality, excellent batch-to-batch reproducibility</p>
<b>Kit Components</b>	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
<b>Notes</b>	<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 product's datasheet. Please contact <a href="mailto:technical@novusbio.com">technical@novusbio.com</a> with questions.</p>

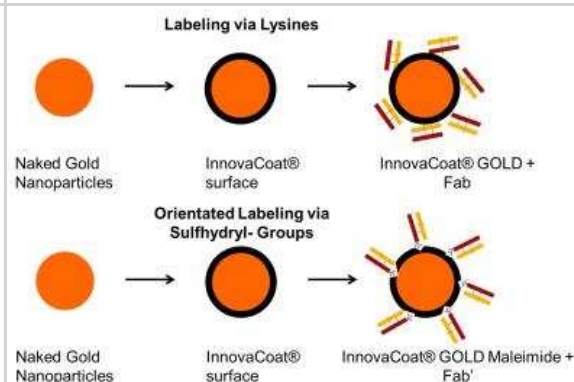


## Images

Flow Cytometry: InnovaCoat GOLD - Maleimide 40nm Antibody Labeling Kit [270-0005] - 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.



InnovaCoat GOLD - Maleimide 40nm Antibody Labeling Kit [270-0005]





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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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