

# InnovaCoat® GOLD Goat Anti-Rabbit IgG 80nm, 40nm, 20nm and 10nm 10OD

Applicable to: 221-0200, 221-1000, 213-0200, 213-1000, 219-0200, 219-1000, 218-0200, 218-1000

Release 2. © EXPEDEON. 27/11/2018

## INTRODUCTION

At the core of this product is InnovaCoat® GOLD, a unique coated nanoparticle that has an avidly bound protective surface coat which can withstand the most extreme conditions (e.g. 2.5M NaOH at 70°C for >1 hour).

The Goat Anti-Rabbit IgG antibody (GAR) is irreversibly attached to the surface coat via a covalent bond. This irreversible attachment doesn't allow the desorption of the antibody, which is a major problem with products in which the antibody is only passively adsorbed to the metal.

The InnovaCoat® GOLD conjugated to GAR antibody recognizes Rabbit IgG which is often used as a primary antibody in various research applications. For this reason secondary antibody anti-rabbit IgGs can be useful tools for the analysis of target proteins.

## SHIPPING AND STORAGE CONDITIONS

InnovaCoat® GOLD GAR 80, 40, 20 and 10nm at 10 OD concentration are shipped at ambient temperature in a small tamper-evident polypropylene container. On receipt, store the product at +4°C. The shelf life is >12 months.

## FORMULATION

InnovaCoat® GOLD GAR 80nm, 40nm, 20nm and 10nm 10 OD are shipped in a buffer composed of TBS containing 0.1% detergent.

If you wish to exchange the InnovaCoat® GOLD GAR 80, 40, 20 and 10 nm into a specific buffer for your assay or test, centrifuge the conjugate in a microfuge at:

- 9,000g 6 minutes (80 and 40nm GAR GOLD)
- 9,000g 20 minutes (20 nm GAR GOLD)
- 21,500g 45 minutes (10nm GAR GOLD)

Carefully remove the supernatant, gently tap the pellet and add your preferred buffer. It is important to avoid substances that have a very high affinity for gold (e.g. thiols).

## INSTRUCTIONS

The InnovaCoat® Gold labeled with GAR is suitable for the following applications:

Product Code	Size	LFA	Flow Cytometry	DLS	SEM	TEM
21-0200 221-1000	80 nm	•	•	•		
213-0200 213-1000	40 nm	•	•		•	•
219-0200 219-1000	20 nm	•	•		•	•
218-0200 218-1000	10 nm		•		•	•

When using InnovaCoat® Gold GAR we recommend to try several dilutions according to the specific application. If an incubation of InnovaCoat GOLD GAR with the target antibody is performed, do not centrifuge the gold complex after this stage (an antibody titration is recommended).

The table above is provided merely as a guideline. For additional applications please contact our Technical Support.

## RELATED PRODUCTS AND SERVICES

Description	Product Code
InnovaCoat® GOLD Goat Anti-Mouse IgG 80nm 10 OD	(217-0200; 217-1000)
InnovaCoat® GOLD Goat Anti-Mouse IgG 40nm 10 OD	(216-0200; 216-1000)
InnovaCoat® GOLD Goat Anti-Mouse IgG 20nm 10 OD	(215-0200; 215-1000)
InnovaCoat® GOLD Goat Anti-Mouse IgG 10nm 10 OD	(214-0200; 214-1000)
InnovaCoat® GOLD Custom Services, including optimization of covalent antibody conjugates, covalent attachment of small molecules and ligands.	

## TECHNICAL SUPPORT

For technical enquiries get in touch with our technical support team at: [www.expedeon.com/contact/](http://www.expedeon.com/contact/)

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