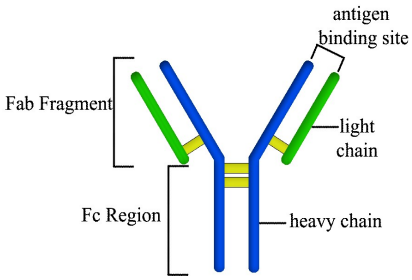
ALPHA DIAGNOSTIC INTERNATIONAL

Product Data Sheet

Cat# CG-50119-R Rabbit Anti-Rat IgG (Fc) colloidal gold conjugated (40 nm, OD10) **Size**: 0.5 mL



Colloidal gold are electron dense non-fading markers that can be used as probes in electron microscopy, light microscopy, and immunoassays. Colloidal gold requires no additional processing for detection although silver enhancement can be done which increases the signal 10-fold. Biomolecules are complexed with colloidal gold through ionic interactions and the positive charge of proteins or antibodies with the negative charge of the surface of the gold colloid. Generally, particles less than 15 nm are used in transmission electron microscopy due to better penetration allowed by smaller probes. Particles greater than 15 nm are more suitable for scanning electron microscopy, light microscopy, and immunoassays.

Rabbits were immunized with antigen grade Rat IgG (Fc)-fragment. Antibodies have been isolated using ammonium sulfate, ion-exchange, and affinity chromatography. Specificity of antibodies has been tested using IEP, immunodiffusion, and ELISA. The antibodies yielded a single precipitin arc against Rat IgG, and Fc-fragment. No antibody reactivity is detected to other Rat serum proteins, IgM, IgA or F(ab)2. Anti-Rat IgG(Fc) may cross-react with Fc-fragment from other species.

Form and Storage

Gold nanoparticle core size: 40 nm

Optical density: 10

Wavelength (nm): 521-526 (lot specific, see vial)

Blocking Agent: BSA Casein PEG-20k

Stabilizers: Trehalose and Sucrose

Buffer: Phosphate buffer pH 7.4, 1% BSA

Preservative: 0.1% Sodium Azide

Storage: Store at 4ºC

Stability: Stable for 6 months in liquid if stored at 4ºC. *Particles may settle on the bottom of the vial, mix with a pipette before use.

Suggested Uses: This preparation is ready to use for Lateral Flow Immunoassays. Apply 4-6 ul per 0.4 cm strip. For other applications dilutions may range from A520=1.0-0.05 (1:10-1:200 dilution). Incubation times generally range from 0.5-12 hours.

Related Material available for ADI

Catalog#	Description

Conjugates (Biotin, AP, FITC, HRP, Alexa Fluor) from various hosts to all Rat isotypes, Purified Rat IgGs, Control (non-immune) Rat serum, ELISA kits for Rat IgGs, and rapid tests available at www.4adi.com

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