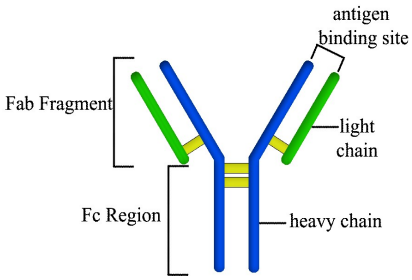
ALPHA DIAGNOSTIC INTERNATIONAL

Product Data Sheet

Cat# CG-40151 Goat Anti-Mouse 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.

Goats were immunized with antigen grade Mouse 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 Mouse IgG, and Fc-fragment. No antibody reactivity is detected to other Mouse serum proteins, IgM, IgA or F(ab)2. Anti-mouse 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: No preservative is included. User may supplement with their own preservative such as 0.05% sodium azide if required.

Storage: Store at 4°C

Stability: Stable for 3-6 months in liquid if stored at 4°C. *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 Mouse isotypes, Purified Mouse IgGs, Control (non-immune) Mouse serum, ELISA kits for Mouse IgGs, and rapid tests available at www.4adi.com

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