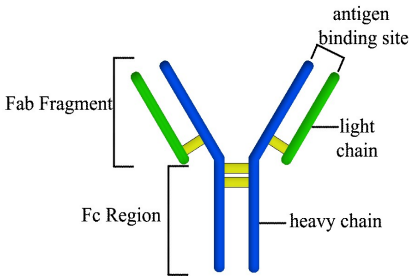
ALPHA DIAGNOSTIC INTERNATIONAL

Product Data Sheet

Cat# CG-30319 Rabbit Anti-Goat 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 Goat IgG (Fc)-fragment. Antibodies have been isolated using ammonium sulfate, ion-exchange, and affinity chromatography. Purified anti-Goat IgG (Fc) antibody is supplied as unlabeled or conjugated to Biotin, FITC, or HRP. Specificity of antibodies has been tested using IEP, immunodiffusion, and ELISA. The antibodies yielded a single precipitin arc against rabbit serum, rabbit IgG, and Fc-fragment. No antibody reactivity is detected to other rabbit serum proteins, IgM, IgA or F(ab)2. Anti- rabbit 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
30219	Rabbit Anti-Goat IgG (H+L) unlabeled, aff pure
30219-G10	Rabbit Anti-Goat IgG (H+L)-Gold (~10 nm) Conjugate
30220	Rabbit Anti-Goat IgG (H+L)-HRP conjugate
30220-210	Donkey Anti-Goat IgG-HRP conjugate
30221	Rabbit Anti-Goat IgG (H+L)-FITC conjugate
30221-200	Donkey Anti-Goat IgG-FITC conjugate
30221-Cy2	Rabbit Anti-Goat IgG (H+L)-Cy2 conjugate
30221-Cy3	Rabbit Anti-Goat IgG (H+L)-Cy3 conjugate
30222-200	Donkey Anti-Goat IgG-HRP conjugate (adsorbed with human, mouse, rat etc)
30223-200	Donkey Anti-Goat IgG-TR (rhodamine) conjugate (adsorbed with human, mouse, rat etc)
30224-200	Donkey Anti-Goat IgG-FITC conjugate (preadsorbed with human, mouse, rat etc)
30225-F	Donkey Anti-Goat IgG-FITC conjugate (preadsorbed with human, mouse, rat etc)
30226-BTN	Mouse Monoclonal Anti-Goat IgG-Biotin Conjugate (H+L, adsorbed with mouse, rat, rabbit, human, horse etc)
30226-HRP	Mouse Monoclonal Anti-Goat IgG-HRP Conjugate (H+L, adsorbed with mouse, rat, rabbit, human, horse etc)
30226-UL	Mouse Monoclonal Anti-Goat IgG (adsorbed with mouse, rat, rabbit, human, horse etc), unlabeled
30227-200	Rabbit Anti-Goat IgG (H+L)-FITC conjugate
30228	Rabbit Anti-Goat IgG (H+L)-Rhodamine conjugated, aff pure
30231	Donkey Anti-Goat IgG (H+L)-Rhodamine (TRITC) conjugate (adsorbed with other species)
30232	Donkey Anti-Goat IgG (H+L)-Phycoerythrin (PE) Conjugate (adsorbed with other species)

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