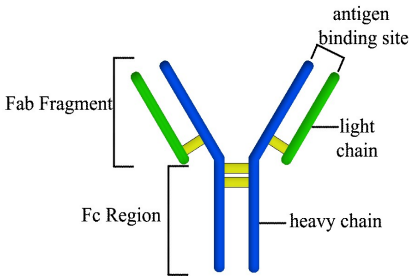
ALPHA DIAGNOSTIC INTERNATIONAL

Product Data Sheet

Cat# 20119 Goat Anti-rabbit 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.

An Fc receptor is a protein found on the surface of certain cells – including, among others, B lymphocytes, follicular dendritic cells, natural killer cells, macrophages, neutrophils, eosinophils, basophils and mast cells – that contribute to the protective functions of the immune system. Its name is derived from its binding specificity for a part of an antibody known as the Fc (Fragment, crystallizable) region. Fc receptors bind to antibodies that are attached to infected cells or invading pathogens. Their activity stimulates phagocytic or cytotoxic cells to destroy microbes, or infected cells by antibody-mediated phagocytosis or antibody-dependent cell-mediated cytotoxicity. Goats were immunized with antigen grade rabbit 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 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 crossreact 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 4°C

Stability: Stable for 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
20019	Goat Anti-Rabbit IgA (alpha chain) unlabeled, aff pure
20029	Goat Anti-Rabbit IgA (alpha chain)-HRP conjugate
20119	Goat Anti-Rabbit IgG (Fc-region) unlabeled, aff pure
20119-GAF-BLK	Goat Anti-Rabbit IgG, Fc Fragment, Affinity Purified (Bulk)
20119-GAS-BLK	Goat Anti-Rabbit IgG, Fc Fragment, Antisera (Bulk)
20120	Goat Anti-Rabbit IgG (Fc-region)-HRP conjugate
20130	Goat Anti-Rabbit IgG (Fc-region)-FITC conjugate
20140	Goat Anti-Rabbit IgG (Fc-region)-Biotin conjugate
20150	Goat Anti-Rabbit IgG (Fc-region)-AP conjugate
20160-BT	Monoclonal Anti-Rabbit IgG (Light-chain) IgG-Biotin Conj (adsorbed, for immunoprecipitation/WB)
20160-HRP	Monoclonal Anti-Rabbit IgG (Light-chain) IgG-HRP Conj (adsorbed, for immunoprecipitation/WB)
20160-UL	Monoclonal Anti-Rabbit IgG (Light-chain) IgG (adsorbed, for immunoprecipitation/WB)
20236-01	Goat Anti-Rabbit IgG (H+L)-Agarose affinity matrix (5-10 mg aff pure antibody/ml gel)
20318-100	Goat Anti-Rabbit IgG (H+L chain) Antiserum, bulk size
20318-GAF-BLK	Goat Anti-Rabbit IgG, Affinity Purified (Bulk)

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