GENEMED SYNTHESIS, INC.

6203 Wood Lake Center Dr., Bldg. 2, San Antonio, TX 78244, USA

Toll free (800) 344-5337; **Phone**: (210) 745-5988; **Fax** (210) 745-5992

Email: info@genemedsyn.com, **Website**: www.genemedsyn.com

10nm Colloidal Gold Labeled Secondary Antibody, Goat Anti-Rabbit IgG

Product Overview

Product Name	Goat Anti-Rabbit IgG Secondary Antibody, 10 nm Colloidal Gold Conjugate
Catalog Number	SA-40133
Synonyms	10 nm Colloidal Gold Labeled Secondary Antibody, Goat Anti-Rabbit IgG; 10 nm Colloidal Gold Conjugated Goat Anti-Rabbit IgG; Goat Anti-Rabbit IgG 10 nm Colloidal Gold Secondary Antibody
Description	Goat Anti-rabbit IgG secondary antibody, 10 nm Colloidal Gold Conjugate, for detection, localization, distribution and quantification of target proteins at an ultrastructural level via indirect immunogold staining in IHC-P, IHC-F, ICC, or EM.
Reagent Type	Colloidal gold conjugated secondary antibody
Conjugate	Colloidal gold, 10 nm
Host	Goat
Target Species	Rabbit
Antibody Class	IgG
Clonality	Polyclonal
Immunogen	Whole molecule rabbit IgG
Purification	Immunoaffinity chromatography, solid phase adsorbed with human serum proteins
Specificity	Rabbit IgG specific: no cross-reactivity with mouse/bovine IgG
Form Supplied	Liquid: concentrated buffered stock solution
Formulation	0.5 mg colloidal gold-conjugated secondary antibody 0.01 M PBS (PH 7.4) 0.01% Thimerosal 50% glycerol

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Pack Size	1 ml
Concentration	0.1 mg/ml
Application	Electron Microscopy, IHC-P, IHC-F, ICC
Storage	4°C for 1 year
Precautions	FOR RESEARCH USE ONLY. NOT FOR DIAGNOSTIC OR CLINICAL USE

Assay Information

Sample Type	Goat primary-antibody-probed ultrathin sliced formalin-fixed paraffin-embedded (FFPE) tissue sections(IHC-P), ultrathin thawed frozen sections(IHC-F), cultured cells
Assay Type	Immunoanalytical
Technique	Indirect immunodetection of target protein via reporter-labeled biotin-binding detection systems
Assay Purpose	Protein detection/quantification
Equipment Needed	Light microscope, scanning electron microscope or transmission electron microscope, micrograph or scan

Main Advantages

Specific	High signal-to-noise ratio
High Signal Amplification	Multiple secondary antibodies can bind to a single primary antibody; label size is larger than tissue structures; much more intense stain than conventional HRP and PAP techniques; additional silver enhancement can be applied
Fast	Fewer processing steps - no need to add a substrate; Less optimization required compared to enzymatic detection; Generates strong signals in a relatively short time span; signal can be observed directly
Quantifieable	The digital nature of the gold signal + high precision in allocating gold labels to defined structures makes it easy to count and quantify
Easy to Use	Supplied in a workable liquid format

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Flexible	Diversity of non-overlapping particle sizes for labeling at different working magnifications, suitable for single or multi-label detection, may be used as a probe in immunoblotting, light microscopy, fluorescence microscopy or electron microscopy, ability to label sections from the same block for both light and electron microscopy, can be used to localize certain antigens in sectioned tissue or cultured cells, excellent labelling in wax, resin embedded or frozen sections, a variety of tissue stains can be used to counterstain the dense black reaction product after silver enhancement
Stability	Gold particles bind proteins rapidly and stably - permanent label, no fading, macromolecule localization and distribution can be recorded using specialized photography