cytodiagnostics

PRODUCT DATA SHEET

Anti-Human IgG (H+L) - 40nm Gold Conjugate (1ml)

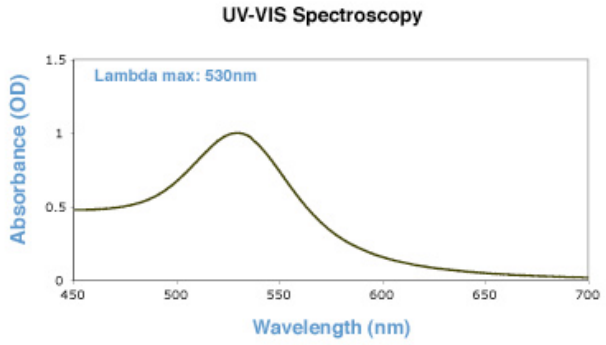
Catalog No. AC-40-03 **Size: 1ml**

Description

Affinity isolated anti-human antibody produced in goat and coupled to 40nm gold nanoparticle. Suitable for use in immunoblotting, light microscopy, and electron microscopy applications procedures for secondary detection of human antibody labeled samples.

Provides a permanent and sensitive label (100pg or less) when used in conjunction with Cytodiagnostics membrane and microscopy silver enhancer kits, see related product below.

Concentration: 0.15 mg/ml (OD=3)
Conjugated Antibody: Goat affinity purified anti-human IgG(H+L)
Clonality: Polyclonal
Storage Buffer: 20mM Tris (pH 8.0), 150mM NaCl, 20% glycerol (v/v), 1% BSA
Working Dilution: 1:10 – 1:100



Storage

Store undiluted in storage buffer at 2-8° C. Stable for at least 4 months if stored as specified.

Product Safety and Handling

This product is for R&D use only, not for drug, household, or other uses. Please review the material safety datasheet (MSDS) available online for proper safety and handling procedures.

Related Products

Silver Enhancer Kit for Membranes Cat No. SR-01-02
Silver Enhancer Kit for Microscopy Cat No. SR-01-01

Standard Immunogold Dot-Blot Protocol

(Adapted from Moeremans et al. [1])

1. Spot one microlitre drops of a serial dilution of your protein (100-0.1ng) in PBS supplemented with 50ug/ml of BSA on nitrocellulose or PVDF membrane.
2. Let protein drops dry into the membrane.
3. Block Membrane for 30 minutes using 1% (w/v) dry milk in 1X PBS at room temperature.
4. Incubate with primary antibody for 2 hours at room temperature.
5. Wash membrane 3x5 minutes with blocking solution prepared as above.
6. Incubate for 2 hours (or longer for increased sensitivity) with secondary gold conjugate diluted 1:10 (OD=0.3) times with blocking solution (0.2% Blocking Solution). See Tech Note #102 for preparation of a gold conjugate.
7. Wash 3x5 minutes as above.
8. Dry membrane and record data.
9. (OPTIONAL) Proceed with silver enhancement to improve sensitivity.

919 Fraser Drive Unit 11, Burlington, ON, L7L 4X8, Canada
Tel: 866-344-3954 Fax: 289-288-0122
www.cytodiagnostics.com

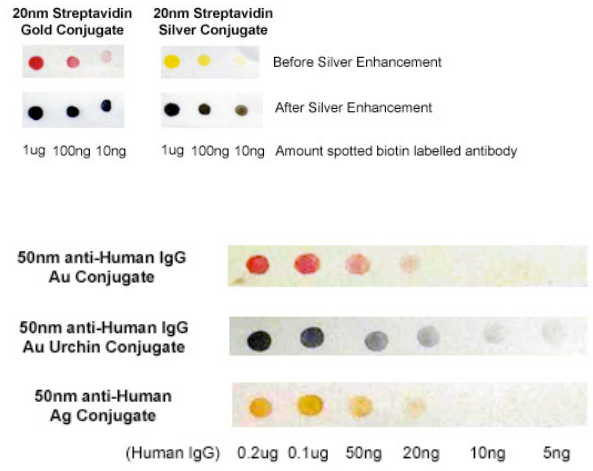


Figure 1. *Example dot-blot assay for Cytodiagnostics streptavidin gold conjugate (top left) and our streptavidin silver conjugate (top right) before and after enhancement using Cytodiagnostics silver enhancement kit for membranes. Bottom picture illustrates and highlights the difference in appearance (color) of 50nm anti-human IgG noble metal nanoparticle conjugates prepared using NHS-activated gold nanoparticles, NHS-activated gold nanourchins, and NHS-activated silver nanoparticles, respectively.*

Ordering Information

For ordering call 866-344-3954 or visit us online at www.cytodiagnostics.com

References

1. M. Moeremans, et al., Journal of Immunological Methods, 1984, 74, 353

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