

## PRODUCT DATA SHEET

### Anti-Human IgG (H+L) - 30nm Au20/Ag80 Alloy Conjugate (0.5ml)

Catalog No. AAC-30-03-05

Size: 0.5ml

#### Description

Affinity isolated anti-human antibody produced in goat and coupled to 30nm Au20/Ag80 Alloy 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.

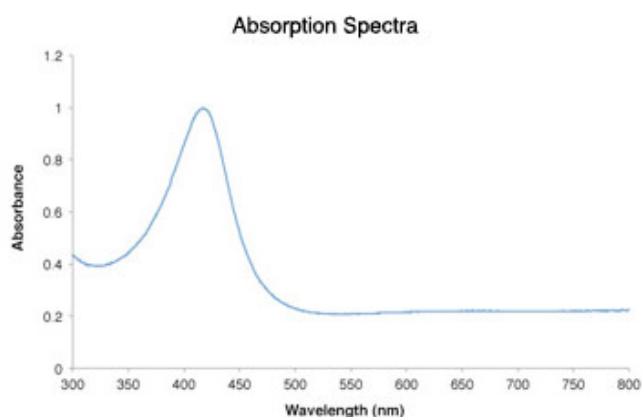
**Concentration:** 0.15 mg/ml (OD=3)

**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

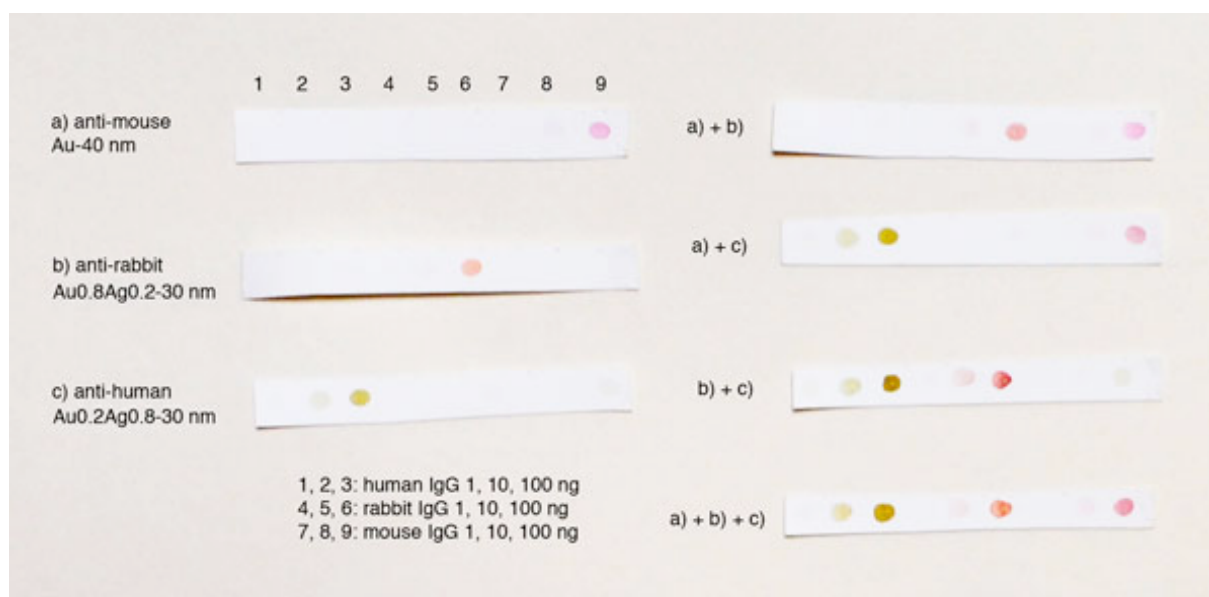
Silver Enhancer Kit for Membranes Cat No. SR-01-02

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 alloy conjugate diluted 1:10 (OD=0.3) times with blocking solution (0.2% Blocking Solution). See Tech Note #102 for preparation of an alloy conjugate.
7. Wash 3x5 minutes as above.
8. Dry membrane and record data.
9. (OPTIONAL) Proceed with [silver enhancement](#) to improve sensitivity.



**Figure 1.** Dot-blot assay using three different types of noble metal nanoparticle conjugates, i.e. anti-mouse IgG 40nm gold conjugate (top left), anti-rabbit IgG Au20/Au80 30nm alloy conjugate (middle left) and anti-human IgG Au80/Au20 30nm alloy conjugate (bottom left). Simultaneous multiplex detection of two or more of the antigens are shown in the right column.

## References

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

## Ordering Information

For ordering call 866-344-3954 or visit us online at [www.cytodiagnos<sup>t</sup>ics.com](http://www.cytodiagnos<sup>t</sup>ics.com)