



# Gold Conjugates

## Easy to use, highly sensitive systems for visualizing proteins

### Versatile and Convenient Probes

KPL's line of colloidal gold-labeled reagents include anti-human, anti-mouse, anti-rabbit, anti-biotin antibodies and streptavidin. These antibodies are affinity purified to minimize cross-reactivity. Anti-biotin and streptavidin conjugates provide a sensitive indication of biotin with low background.

### Advantages of gold conjugates

- Different sized gold particles (5 nm and 40 nm) allow for a variety of uses for these conjugates.
- Greater stability in liquid form than enzyme conjugates.
- Eliminates the need for an enzyme blocking step.
- 5 nm gold particles permit better penetration of tissue due to their small size.
- Highly sensitive technique detects 60 picograms of protein in dot blotting.

### Silver Enhancer Kits

For maximum signal, KPL's Silver Enhancer Kits amplify the gold conjugates signal 10 to 100 times. The resulting brown/black silver stain is permanent and offers sharp resolution and contrast with conventional counterstains.

### Applications for Gold Conjugates

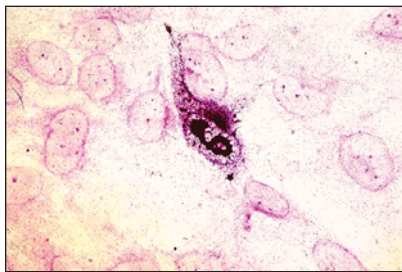
40 nm gold conjugates are ideal for use in these applications.

- Lateral flow assays
- Light Microscopy
- Blotting
- Immunohistochemistry and *in situ* hybridization applications

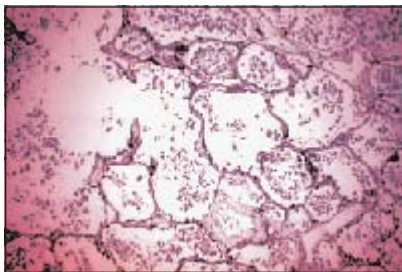
5 nm gold conjugates are ideal for use in these applications.

- Light Microscopy
- Electron Microscopy





CMV infected cells, human anti-CMV serum with gold-labeled goat anti-human IgG (H+L), 5 nm with Microscopy Silver Enhancer Kit and Eosin.



Human normal lung tissue, anti-epithelial membrane antigen with gold-labeled goat anti-mouse IgG (H+L), 5 nm with Microscopy Silver Enhancer Kit and Contrast BLUE.

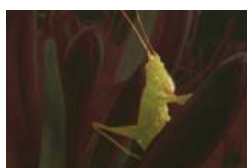
## Ordering Information

Catalog#	Description	Size
<b>Gold Labeled</b>		
<i>Each system contains Gold Conjugate Dilution Buffer</i>		
57-10-06	Anti-Human IgG (H+L) System, 40 nm	3.0 mL
58-10-06	Anti-Human IgG (H+L) System, 5 nm	1.0 mL
57-18-06	Anti-Mouse IgG (H+L) System, 40 nm	3.0 mL
58-18-06	Anti-Mouse IgG (H+L) System, 5 nm	1.0 mL
57-15-06	Anti-Rabbit IgG (H+L) System, 40 nm	3.0 mL
58-15-06	Anti-Rabbit IgG (H+L) System, 5 nm	1.0 mL
57-40-06	Anti-Biotin System, 40 nm	3.0 mL
58-40-06	Anti-Biotin System, 5 nm	1.0 mL
57-30-06	Streptavidin System, 40 nm	3.0 mL
58-30-06	Streptavidin System, 5 nm	1.0 mL

### Silver Enhancer Kits

55-22-01	Silver Enhancer Kit for Microscopy <i>Kit includes: 1 mL of Gold Conjugate 100 mL of Gold Conjugate Dilution Buffer</i>	
	Solution A	25 mL
	Solution B	25 mL
55-22-02	Silver Enhancer Kit for Membrane Applications <i>Kit includes: 3 mL of Gold Conjugate 250 mL of Gold Conjugate Dilution Buffer</i>	
	Solution A	250 mL
	Solution B	250 mL

To order or for more information on KPL's full line of protein detection products, contact us at 800.638.3167 / 301.948.7755, fax 301.948.0169 or visit us at [www.kpl.com](http://www.kpl.com).



Pictured on front and above: adult grasshopper.

## FREQUENTLY ASKED QUESTIONS

What are the advantages of using gold conjugates versus enzyme-labeled conjugates?

One advantage is the possibility of cross-reactivity with naturally-occurring enzymes is non-existent, as compared to enzyme-labeled conjugates. Another advantage is a single-step detection versus enzyme conjugate and substrate.



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