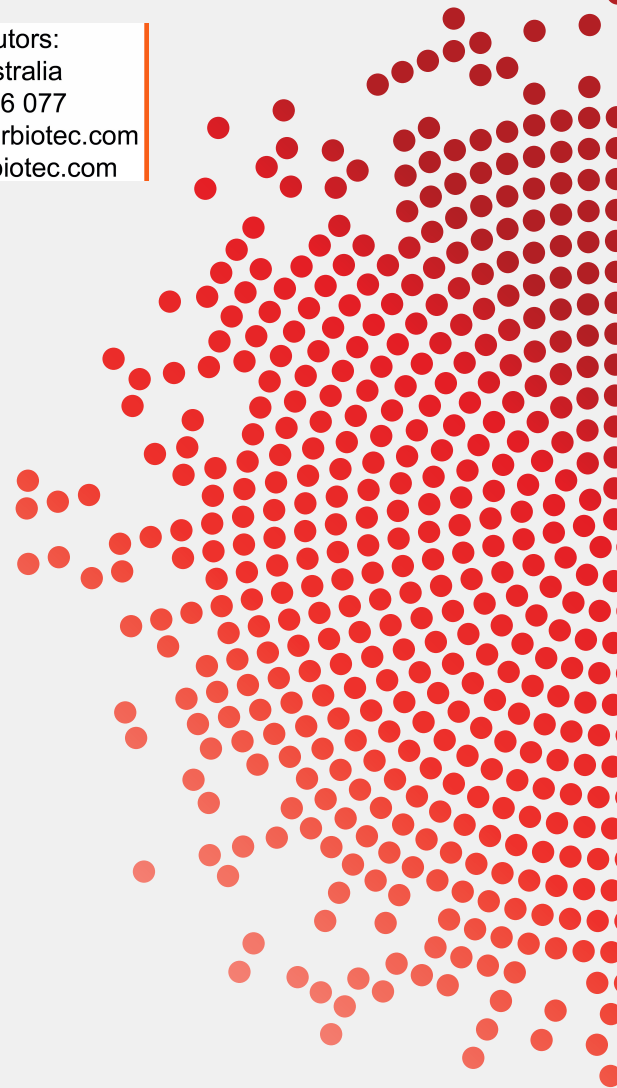


Superior Gold nanoparticles and conjugation kits

Scalable options to support you from research and development to manufacturing



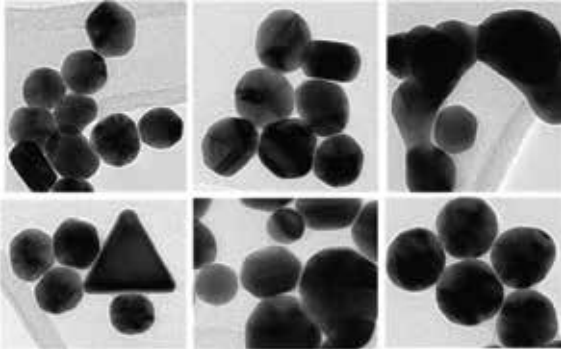
Research and development stages: Gold Conjugation Kits

- Easy and rapid conjugation: only <5 minutes hands-on time and 100% recovery of materials
- Site-specific labelling: antigen binding sites of antibodies are free to bind the target molecule
- Proprietary surface coating prevents metal-protein interactions, and enables covalent attachment to the Gold: stable conjugates formed

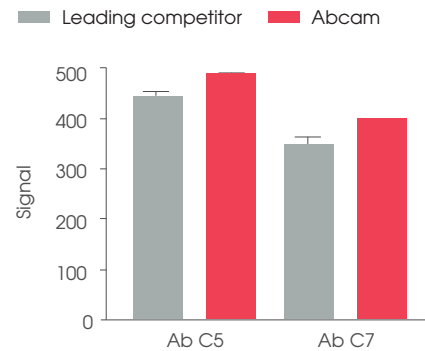
Conjugation kit	Chemistry	Conjugate ready time
Gold Conjugation	Covalent binding via amine group	< 20 min
Gold-Carboxyl	Via carboxyl group	< 35 min
Gold-Hydrazide	Fc site specific labeling via aldehyde group	< 30 min
Gold-Maleimide	Oriented labeling for oligonucleotides and Fab' via sulfhydryl group	< 1 h

Scaling up or manufacturing stages: Colloidal Gold Nanoparticles

- Cost-effective and flexible conjugation (Passive adsorption)
- Uniform spherical shape and narrow size distribution offering batch-to-batch consistency
- Available at high concentrations to simplify assay development
- Available in bulk quantities



Transmission electron microscopy of commercially available gold particles. Note that the Abcam particles (bottom right) have the most regular shape.



Lateral flow testing of two CRP antibodies (C5 and C7) as passive conjugates. Note that Abcam's gold nanoparticles give a greater signal than a leading competitor's gold in each case.

Gold Nanoparticles	10 nm	20 nm	40 nm	80 nm
1 OD	ab269933	ab269935	ab269928	ab269938
10 OD	ab269934	ab269936	ab269930	ab269940
15 OD		ab269937	ab269931	ab269941
20 OD			ab269932	



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