



Product Information Sheet

5 nm Colloidal Gold Conjugated Protein A

Catalog No. GA1053

Size 0.1 mg

Storage

Store at 4°C for frequent use; at -20°C for at least one year.

Avoid multiple freeze-thaw cycles.

Expiration

One year from the day of shipment.

Applications

Electron Microscopy (EM);
Immunohistochemistry (IHC).

Product Description

Protein A is the component of the cytoderm of staphylococcus aureus. It was regarded as a kind of broad spectrum secondary antibody, because it can bind Fc fragments of a majority of immunoglobulins. It can react with guinea pig, rabbit globulin and human IgG1, 2, 4 strongly and react with mouse, bovine globulin and human IgA, E, M weakly.

Contents

0.1 mg of colloidal gold conjugated protein A, the diameter of colloidal gold is 5±1 nm;
0.01M PBS; 1% BSA; 0.01% Thimerosal.

Preparation of Colloidal Gold

5 nm Colloidal Gold — Add 0.05% trisodium citrate and 0.05% Vitamin C into boiled 0.01% chloroauric acid which was reduced to gold granule solution through redox reaction.

Conjugate colloidal gold to protein A after mensurating the optimal data. And through overspeed centrifugation and gradient delamination to density, the colloidal gold conjugated reagents were produced.

Preparation of Diluent Buffer

Add reagent grade BSA into 0.01 M PBS (PH7.2-7.6) or TBS buffer and make BSA at a concentration of 1%. Use the above diluent buffer to dilute. See "Recommended Dilutions" below for details.

Preparation of IGSS (ImmunoGold Silver Staining)

Add citric acid 2.35g, trisodium citrate 2.55g, glutin 1g and hydroquinone 1.7g into 100 ml of distilled water and mix evenly. Before usage, add silver nitrate 50mg into it. Then, add this mixed solution into tissue at last and colorate for 10-20 minutes in dark. Wash with water to terminate reaction.

To reorder contact us at:

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Recommended Dilutions

EM	1:20-50
IHC	1:50-100

Optimal working dilutions must be determined by end user.

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