

Product Information

Anti-Mouse IgG (whole molecule)-Gold 5 nm colloidal gold

produced in goat, affinity isolated antibody
adsorbed with human serum proteins

Catalog Number **G7527**

Product Description

Anti-Mouse IgG is produced in goat using mouse IgG purified from normal mouse serum as the immunogen. The antibody is isolated by immunospecific methods of purification to remove essentially all goat serum proteins, including immunoglobulins, which do not specifically bind to mouse IgG. The antibody preparation is solid phase adsorbed with human serum proteins to ensure minimal cross reactivity in tissue or cell preparations. The adsorbed affinity isolated antibody is then conjugated to 5 nm gold particles and excess antibody is removed.

Specificity of the antibody is established by Dot Blot Assay (DBA) using purified mouse IgG and human serum. No reactivity with human serum proteins is observed.

Reagents

Supplied as a colloidal suspension in 0.02 M Tris buffered saline, pH 8.2, with 20% (v/v) glycerol, 1% (w/v) bovine serum albumin and 15 mM sodium azide as a preservative

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

Store at 2-8 °C.

Procedure

The conjugate should be diluted for most applications, using 0.5 M NaCl, buffered at pH 6-8, containing 0.1% BSA, 0.05% TWEEN® 20 and 5% fetal bovine serum to minimize background staining. For any given application, the optimal concentration of the conjugate must be determined experimentally. For most applications the final A_{520} may range from 1.0 to 0.05 (1:5 to 1:100 dilution) with incubation times in the range of 30 minutes to 12 hours.³

Product Profile

Binding activity is determined using a modification of the dot blot assay of Brada and Roth.¹ In this assay a 1 mg/ml solution of mouse IgG is serially diluted in phosphate buffered saline, 1 µL of each dilution is then applied to nitrocellulose paper. Binding activity is defined as the minimum amount of mouse IgG detectable as a visible pink-red spot after a 1 hour incubation with the gold conjugate diluted to an A_{520} of 0.25.

References

1. Brada, D. and Roth, J., *Anal. Biochem.*, **142**, 79 (1984).
2. Ackerman, G., et al., *J. Histochem., Cytochem.*, **31**, 433 (1983).
3. Hsu, Y-H., *Anal Biochem.*, **142**, 221 (1984).

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