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Product Information

Anti-Mouse IgG (whole molecule)-Alkaline Phosphatase
produced in rabbit, IgG fraction of antiserum

Catalog No. **A2418**

Product Description

Anti-Mouse IgG is produced in rabbit using purified mouse IgG as the immunogen. Whole antiserum is fractionated and then further purified by ion exchange chromatography to provide the IgG fraction of antiserum. This fraction is essentially free of other rabbit serum proteins. Anti-Mouse IgG is conjugated to alkaline phosphatase by protein cross linking with 0.2% glutaraldehyde.[1]

Specificity

Reactivity of the mouse IgG is determined by Ouchterlony Double Diffusion (ODD) prior to conjugation. The antibody preparation reacts with mouse IgG, IgA, and IgM.

Identity and Purity

Identity and purity of the antibody is established by immunoelectrophoresis (IEP), prior to conjugation. Electrophoresis of the product followed by diffusion versus anti-rabbit IgG and anti-rabbit whole serum results in single arcs of precipitation in the gamma region.

Reagent

Solution in 0.05 M Tris buffer, pH 8.0, containing 1% BSA, 1 mM $MgCl_2$, with 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

Store at 2-8 °C. **Do Not Freeze**.

Product Profile

Direct ELISA: titer minimum 1:15,000
Titer is defined as the dilution of stock conjugate sufficient to give an absorbance of 1.0 at 405 nm in 30 minutes of substrate conversion at 25 °C.[2]
Micro-ELISA plate wells are coated with mouse IgG at a concentration of 5 µg/ml. Coating buffer is 0.05 M carbonate-bicarbonate buffer, pH 9.6
Carbonate/Bicarbonate Buffer capsules are available as Catalog Number C3041.

Substrate: *p*-Nitrophenyl Phosphate (pNPP), Catalog Number N2765, 1.0 mg/ml in 10% diethanolamine buffer, pH 9.8, containing 0.5 mM $MgCl_2$.

Immunoblotting: a working dilution of 1:40.000 - 1:80,000 is determined using immunoblot assay detecting ß-Actin in total cell extract of HeLa cells (5-10 ug per well)

Immunohistochemistry: a minimum working dilution of 1:40 was determined on formalin-fixed, paraffin-embedded sections of human tonsil using Monoclonal Anti-Actin, α-Smooth Muscle, Catalog No. A2547, as the primary antibody.

Note: Working dilution should be determined by titration assay. Due to differences in assay systems, these titers may not reflect the user's actual working dilution.

References

1. Avrameas, V., Immunochemistry,**6**, 43, (1969).
2. Voller, A., et al., Bulletin WHO, **53**, 55 (1976).

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