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Product Information

Anti-Mouse IgG (Fab specific)–Alkaline Phosphatase
produced in goat, affinity isolated antibody

Catalog Number **A1293**

Product Description

Anti-Mouse IgG (Fab specific) is produced in goat using as immunogen purified mouse IgG Fab fragment. Antibody is isolated from goat anti-mouse IgG antiserum by immunospecific purification which removes essentially all goat serum proteins, including immunoglobulins, that do not specifically bind to the Fab fragment of mouse IgG. Anti-Mouse IgG is conjugated to alkaline phosphatase by protein cross linking with 0.2% glutaraldehyde. The antibody preparation is solid phase adsorbed with human IgG to ensure minimal cross reactivity in tissue or cell preparations.

Specificity of Anti-Mouse IgG- Alkaline Phosphatase is determined by Enzyme Linked Immunosorbent Assay (ELISA). The conjugate is specific for mouse IgG and mouse IgG, Fab fragment. Cross reactivity of the antibody-conjugate is also determined by ELISA. The conjugate shows no reactivity with mouse IgG, Fc fragment, or human IgG.

Identity and purity of the antibody is established by immunoelectrophoresis (IEP), prior to conjugation. Electrophoresis of the antibody preparation followed by diffusion against anti-goat IgG and anti-goat whole serum results in single arcs of precipitation.

Reagents

Supplied as a solution in 0.05 M Tris buffer, pH 8.0, containing 1% BSA, 1 mM $MgCl_2$ 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. **Do Not Freeze**.

Product Profile

Direct ELISA: minimum titer 1:40,000
We are now reporting lot specific information as a titer by direct ELISA rather than as a working dilution. Titer is defined as the dilution of conjugate sufficient to give a change in absorbance of 1.0 at 400 nm after 30 minutes of substrate conversion at 25 °C.[1]
Microtiter plates are coated with purified mouse IgG at a concentration of 5 μg/ml in 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 0.01% $MgCl_2$ and 0.2% sodium azide.

Immunoblotting: a working antibody dilution of 1:30.000-1:60,000 is determined using an immunoblot assay detecting β-Actin in total cell extract of HeLa cells (5-10 μg per well).

Immunohistology: a minimum working antibody dilution of 1:50 was determined by an indirect assay using formalin- fixed, paraffin-embedded human tonsil and Monoclonal Anti-Actin, α- Smooth Muscle, Catalog Number A2547, as primary antibody.

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

This goat antiserum was maintained at pH 5.0 for 40 minutes to meet USDA requirements.

References

1. Voller, A., et al., Bull. World Health Organ., **53**, 55 (1976).

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