

## Product Information

### Anti-Goat IgG (whole molecule)–Alkaline Phosphatase

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

Catalog Number **A4062**

#### Product Description

Antiserum is produced in rabbit using purified goat IgG as the immunogen. Antibody is isolated from anti-goat IgG antiserum by immunospecific purification that removes essentially all rabbit serum proteins, including immunoglobulins that do not specifically bind to goat IgG. The antibody preparation is solid phase adsorbed with human serum proteins to ensure minimal cross reactivity in tissue or cell preparations. Anti-Goat IgG is conjugated to alkaline phosphatase by protein crosslinking with 0.2% glutaraldehyde.<sup>1</sup>

Specificity of the antiserum is determined by immunoelectrophoresis prior to conjugation versus normal goat serum and goat IgG.

Identity and purity of the antibody is established by immunoelectrophoresis 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.

#### Reagent

Supplied as a solution in 0.05 M Tris buffer, pH 8.0, containing 1% BSA, 1 mM MgCl<sub>2</sub>, and 50% glycerol 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/Stability

Store at 2–8 °C.

#### Product Profile

**ELISA:** a minimum titer of 1:30,000 is determined by direct ELISA.

Titer is defined as the dilution of conjugate sufficient to give a change in absorbance of 1.0 at 405 nm after 30 minutes of substrate conversion at 25 °C.<sup>2</sup>

Multiwell plates are coated with purified goat IgG at a concentration of 5 µg/ml in 0.05 M carbonate-bicarbonate buffer, pH 9.6, 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<sub>2</sub>.

**Immunoblotting:** a minimal working dilution of 1:30,000 is determined using Goat IgG.

Substrate: 5-Bromo-4-chloro-3-indolyl Phosphate/Nitroblue Tetrazolium (BCIP®/NBT), SIGMAFAST™ Tablets, Catalog Number B5655.

**Immunohistochemistry:** a minimum working dilution of 1:50 is determined by indirect immunohistochemistry labeling of formalin-fixed, paraffin-embedded human tonsils using primary antibody produced in goat.  
Substrate: Fast Red TR/AS-MX Naphthol Phosphate<sup>3</sup> SIGMAFAST Tablets, Catalog Nos. F4523 or F4648

#### References

1. Avrameas, V., *Immunochemistry*, **6**, 43, (1969).
2. Voller, A. et al., *Bulletin WHO*, **53**, 55 (1976).
2. Pluzek, K.J., and Ramlau, R., *Alkaline Phosphatase Labeled Reagents*, in *CRC Handbook of Immunoblotting of Proteins*, O.J. Bjerrum and N.H.H. Heegaard, eds., CRC Press Inc., Boca Raton, FL, **1**, p. 177, 1988.

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