

# Goat Anti-Biotin Polyclonal Antibody

## Goat, Polyclonal (Biotin)

Cat. No. DPAB0693

Lot. No. (See product label)

### PRODUCT INFORMATION

**Product Overview:** Goat Antibody to Biotin

**Specificity:** Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Fluorescein, anti-Goat Serum, Biotinylated IgG and Biotinylated Bovine Serum Albumin.

**Immunogen:** Biotin conjugated to Keyhole Limpet Hemocyanin (KLH).

**Host animal:** Goat

**Format:** FITC, Lyophilized; Reconstitute with 1ml of deionized water (or equivalent). Centrifuge product if not completely clear after standing at room temperature.

**Applications:** Specific methodologies have not been tested using this product.

**Purification:** Immunoaffinity chromatography using Biotin coupled to sepharose beads. 4.6 moles FITC per mole of Goat IgG.

### REFERENCES

1. The and Feltkamp, (1970), Immunology 18; 865

### BACKGROUND

**Introduction:** Biotin is a water soluble vitamin, generally classified as a B complex vitamin, also called vitamin B4. After the initial discovery of biotin, nearly forty years of research were required to establish it as a vitamin. Biotin is required by all organisms but can only be synthesized by bacteria, yeasts, molds, algae, and some plant species. Biotin is required as prosthetic group of enzymes involved in incorporation of carbon dioxide into organic compounds. Biotin has a MW of 244 Da.

**Keywords:** Vitamin B4; Biotin

### PACKAGING

**Concentration:** 1mg/ml (OD280nm) (prior to lyophilization)

**Buffer:** Lyophilized from 0.02M Potassium phosphate, 0.15M Sodium Chloride, pH 7.2 containing 10mg/ml BSA (IgG and Protease free)

**Preservative:** 0.01% Sodium azide

**Storage:** Store lyophilized product at 2-8°C. After reconstitution, product is stable for several weeks as an undiluted liquid. Prepare working dilution only prior to immediate use. For extended storage, reconstitute product with 50% glycerol instead of water and then aliquot and store at -20°C or below. Avoid multiple freeze/thaw cycles. Expiration is one year from date of reconstitution.

**Warning:** This product contains sodium azide, which has been classified as Xn (Harmful), in European Directive 67/548/EEC in the concentration range of 0.1-1.0%. When disposing of this reagent through lead or copper plumbing, flush with copious volumes of water to prevent azide build-up in drains.