

Polyclonal Antibody to Biotin F(ab')₂ - FITC

Catalog No.:	AP09429FC-N
Quantity:	1 mg
Concentration:	1,0 mg/ml (by UV absorbance at 280 nm)
Background:	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.
Host / Isotype:	Goat / IgG
Immunogen:	Biotin conjugated to Keyhole Limpet Hemocyanin (KLH)
Format:	State: Lyophilized F(ab) ₂ fragment Purification: Immunoaffinity chromatography Buffer System: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 containing 10 mg/ml Bovine Serum Albumin (BSA) and 0.01% (w/v) Sodium Azide Label: FITC – Fluorescein isothiocyanate (Molecular Weight 390 daltons) <i>Absorption / Emission:</i> 495 nm / 528 nm <i>Molar Ratio:</i> 3.6 moles FITC per mole of Goat IgG Reconstitution: Restore with 1.0 ml of deionized water (or equivalent). For extended storage, add glycerol to 50%
Applications:	Immunofluorescence. Flow Cytometry. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This is a Fluorescein conjugated F(ab) ₂ fragment of Anti-Biotin.
Storage:	Prior to reconstitution store at 2-8°C. Following reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
Recommended Control Peptides:	AP09429CP-N