

Polyclonal Antibody to Biotin - FITC

Alternate names:	Vitamin B4
Catalog No.:	AP09175FC-N
Quantity:	20 mg
Concentration:	10.0 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:	Rabbit / IgG
Immunogen:	Biotin conjugated Keyhole Limpet Hemocyanin (KLH)
Format:	State: Lyophilized IgG fraction Buffer System: 0.01M Sodium Phosphate, 0.14M Sodium Chloride, pH 7.4 Preservatives: 0.01% (w/v) Thimerisol Stabilizers: 10 mg/ml BSA (IgG and Protease free) Label: FITC <i>Absorption / Emission:</i> 495 nm / 528 nm <i>Molar Ratio:</i> 2.7 moles Fluorescein (FITC) per mole of IgG Reconstitution: Restore with 2.0 ml of deionized water (or equivalent).
Applications:	Suitable for Immunomicroscopy and Flow Cytometry or FACS analysis as well as other antibody based fluorescent assays requiring lot-to-lot consistency. <i>Recommended Dilutions:</i> Immunofluorescence: 1/500-1/2,500. Flow Cytometry: 1/2,000-1/10,000. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody is an IgG fraction antibody purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above. Assay by Immunoelectrophoresis resulted in a single precipitin arc against anti-Rabbit Serum, Biotin conjugated IgG and Biotin conjugated Albumin.
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.

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Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Antibody Hotline - Technical Questions - Antibody Location Service
Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com