

Polyclonal Antibody to Biotin F(ab')₂ - Cy5

Catalog No.:	AP09429C5-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 BSA (Immunoglobulin and Protease free) as stabilizer and 0.01% (w/v) Sodium Azide as preservative Label: Cy5 – 29 (Cyanine 5.29-OSu) (Molecular Weight 975 daltons) <i>Absorption / Emission:</i> 650 nm / 667 nm <i>Molar Ratio:</i> 5.3 moles Cy5 per mole of Goat IgG F(ab') ₂ Reconstitution: Restore with 1.0 ml of deionized water (or equivalent). For extended storage, add glycerol to 50%
Applications:	This product is designed for immunofluorescence microscopy, fluorescence based plate assays (FLISA) and fluorescent western blotting. This product is also suitable for multiplex analysis, including multicolor imaging, utilizing various commercial platforms. Suitable for Immunomicroscopy and Flow cytometry or FACS analysis as well as other antibody based fluorescent assays requiring lot-to-lot consistency. Recommended Dilutions: IF Microscopy: 1/100-1/1,000. Flow Cytometry: 1/200-1/400. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This is a Cy5 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.