

Certificate of Analysis

Product: Fluorescein Conjugated Monoclonal anti-Green Fluorescent Protein (*Aequorea victoria*) [Mouse]

Code: 600-302-215

Lot # 18353

Size: 1.0 mg

Physical State: Lyophilized

Label: Fluorescein isothiocyanate (FITC) (Molecular Weight 390 daltons)

Absorption Wavelength: 495 nm

Emission Wavelength: 528 nm

Fluorochrome/Protein Ratio: 1.9 moles FITC per mole of Mouse IgG

Antibody Concentration: 1.0 mg/ml (by UV absorbance at 280 nm)

Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

Stabilizer: 10 mg/ml Bovine Serum Albumin (BSA) IgG and Protease free

Preservative: 0.01% (w/v) Sodium Azide

Application(s): Designed to detect GFP and its variants. Monoclonal and polyclonal forms of anti-GFP were assayed by ELISA (sandwich or capture) for direct binding of antigen and recognize wild type, recombinant and enhanced forms of GFP. Biotin conjugated monoclonal and polyclonal forms of anti-GFP were assayed in a sandwich ELISA and are well-suited to titrate GFP in solution using either form of the antibody as the capture or detection antibodies. The detection antibody is typically conjugated to biotin and subsequently reacted with streptavidin-HRP (code # S000-03). Fluorochrome conjugated polyclonal anti-GFP was assayed by immunofluorescence microscopy on prokaryotic (*E.coli*) and eukaryotic (CHO cells) expression systems and was shown to detect GFP containing inserts. Significant amplification of signal was detected using fluorochrome conjugated polyclonal anti-GFP relative to the fluorescence of GFP alone. Alkaline Phosphatase or Peroxidase conjugated polyclonal anti-GFP assayed by immunoblot shows a 42 kDa band when reacted with GFP on a western blot. Optimal titers for applications should be determined by the researcher.

Recommended Dilution(s):

FLOW CYTOMETRY	1:2,000 - 1:10,000
IF MICROSCOPY	1:500 - 1:2,500
OTHER APPLICATIONS	User Optimized

Storage Conditions: Store vial at 4° C prior to restoration. Restore with 1.0 ml of deionized water (or equivalent). For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. Expiration date is one (1) year from date of restoration.

Purity: This product was prepared from tissue culture supernatant by Protein A chromatography. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Mouse Serum. Reactivity is observed against wild type, recombinant and enhanced forms of GFP.

Immunogen: The immunogen is a GST- Green Fluorescent Protein (GFP) fusion protein corresponding to the full length amino acid sequence (246aa) derived from the jellyfish *Aequorea victoria*.

Conjugation Reference: The and Feltkamp, *Immunology* **18**; 865, 1970.

USDA Certification: All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation.

Note: This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information.