

Product Specification Sheet

Product: Fluorescein Conjugated Affinity Purified anti-Green Fluorescent Protein (*Aequorea victoria*) [Goat]

Code: 600-102-215

Lot # 12259

Physical State: Lyophilized

Size: 1.0 mg

Label: Fluorescein isothiocyanate (FITC) (MW 390 daltons)

Absorption Wavelength: 495 nm

Emission Wavelength: 528 nm

Fluorochrome/Protein Ratio: 3.2 moles FITC per mole of Goat 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 in ELISA (sandwich or capture), immunoblotting and immunoprecipitation. Monoclonal and polyclonal forms of anti-GFP assayed by ELISA for direct binding of antigen recognize wild type, recombinant and enhanced forms of GFP. Monoclonal and polyclonal forms anti-GFP assayed in a sandwich ELISA 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 complexed with streptavidin-HRP (code # S000-03). Fluorochrome conjugated 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 anti-GFP relative to the fluorescence of GFP alone. Peroxidase conjugated 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): Not specified. Optimal titers for applications should be determined by the researcher.

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 monospecific antiserum by immunoaffinity chromatography using Green Fluorescent Protein (*Aequorea victoria*) coupled to agarose beads followed by solid phase adsorption(s) to remove any unwanted reactivities. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Goat Serum, anti-Fluorescein and purified and partially purified Green Fluorescent Protein (*Aequorea victoria*) Serum. No reaction was observed against Human, Mouse and Rat Serum Proteins.

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.

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.