

Product Specification Sheet

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

Code: 600-305-215

Lot # 12263

Size: 1.0 mg

Physical State: Liquid (sterile filtered)

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

Label: Alkaline Phosphatase (Calf Intestine) (Molecular Weight 140,000 daltons)

Buffer: 0.05M Tris Chloride, 0.15M Sodium Chloride, 0.001M Magnesium Chloride, 0.0001M Zinc Chloride, 50% (v/v) Glycerol; pH 8.0

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. Alkaline Phosphatase or 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): This product has been assayed against 1.0 µg of GFP in a standard capture ELISA using pNPP p-nitrophenyl phosphate code # NPP-10 as a substrate for 30 minutes at room temperature. A working dilution of 1:1,000 to 1:5,000 is suggested for this product. Optimal titers for other applications should be determined by the researcher.

Storage Conditions: Store vial at 4° C before opening. **DO NOT FREEZE.** This product is stable at 4° C as an undiluted liquid. Dilute only prior to immediate use. Freezing alkaline phosphatase conjugates will result in a substantial loss of enzymatic activity. Expiration date is one (1) year from date of opening product.

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 and purified and partially purified Green Fluorescent Protein (*Aequorea victoria*). 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: Modified from Avrameas and Ternyrock, *Immunochemistry* **32**; 1175 1971.

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.