

Certificate of Analysis

Product: Affinity Purified anti-Green Fluorescent Protein (*Aequorea victoria*) [Goat] Minimum Cross Reactivity to Human, Mouse and Rat Serum Proteins

Code: 600-101-215

Lot # 20014

Size: 1.0 mg

Physical State: Liquid (sterile filtered)

Stabilizer: None

Preservative: 0.01% (w/v) Sodium Azide

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

Application(s): Polyclonal anti-GFP is designed to detect GFP and its variants. This antibody can be used to detect GFP by ELISA (sandwich or capture) for the direct binding of antigen and recognizes wild type, recombinant and enhanced forms of GFP. Biotin conjugated polyclonal anti-GFP used in a sandwich ELISA is well suited to titrate GFP in solution using this antibody in combination with Rockland's monoclonal anti-GFP (600-301-215) using either form of the antibody as the capture or detection antibody. However, use the monoclonal form only for the detection of wild type or recombinant GFP as this form does not sufficiently detect 'enhanced' GFP. The detection antibody is typically conjugated to biotin and subsequently reacted with streptavidin conjugated HRP (code # S000-03). Fluorochrome conjugated polyclonal anti-GFP can be used to detect GFP by immunofluorescence microscopy in prokaryotic (*E.coli*) and eukaryotic (CHO cells) expression systems and can detect GFP containing inserts. Significant amplification of signal is achieved using fluorochrome conjugated polyclonal anti-GFP relative to the fluorescence of GFP alone. For immunoblotting use either alkaline phosphatase or peroxidase conjugated polyclonal anti-GFP to detect GFP or GFP-containing proteins on western blots. Optimal titers for applications should be determined by the researcher.

Recommended Dilution(s):

ELISA	1:40,000
WESTERN BLOT	1:400 - 1:2,000
IMMUNOHISTOCHEMISTRY	1:200 - 1:1,000
OTHER APPLICATIONS	User Optimized

Storage Conditions: Store vial at -20° C or below prior to opening. Dilute only prior to immediate use. For extended storage, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Expiration date is one (1) year from date of opening product.

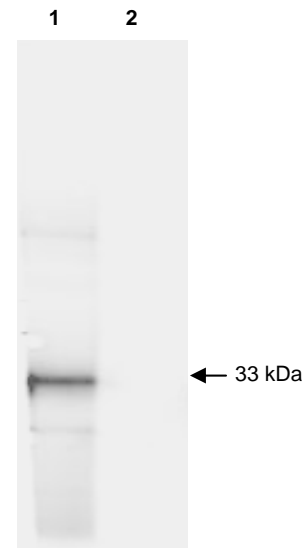


Figure. Western blot of GFP recombinant protein detected with ROCKLAND's polyclonal anti-GFP antibody. Lane 1 shows blot results where GFP recombinant protein was expressed in HeLa cells. Lane 2 shows control staining of HeLa lysate not expressing GFP. ROCKLAND's polyclonal anti-GFP detects a 33 kDa band corresponding to the epitope tag GFP. A 4-12% Bis-Tris gradient gel (Invitrogen) was used for SDS-PAGE. The protein was transferred to nitrocellulose using standard methods. After blocking the membrane was probed with the primary antibody diluted to 1.0 µg/ml for 1 h at room temperature followed by washes and reaction with a 1:2,500 dilution of IRDye® 800 conjugated Donkey-a-Goat IgG [H&L] MX7 (605-732-125). IRDye® 800 fluorescence image was captured using the Odyssey® Infrared Imaging System developed by LI-COR. IRDye is a trademark of LI-COR, Inc. Other detection systems will yield similar results.

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 and purified and partially purified Green Fluorescent Protein (*Aequorea victoria*). No reaction was observed against Human, Mouse or Rat serum proteins.

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

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.

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.

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