

Datasheet for 600-303-215**GFP Antibody Peroxidase Conjugate****Overview**

Description:	Anti-GFP (MOUSE) Monoclonal Antibody Peroxidase Conjugate - 600-303-215
Item No.:	600-303-215
Size:	1 mg
Applications:	ELISA, WB
Reactivity:	GFP, eGFP, rGFP
Host Species:	Mouse

Product Details

Background:	Green fluorescent protein is a 27 kDa protein produced from the jellyfish <i>Aequorea victoria</i> , which emits green light (emission peak at a wavelength of 509nm) when excited by blue light. GFP is an important tool in cell biology research. GFP is widely used enabling researchers to visualize and localize GFP-tagged proteins within living cells without the need for chemical staining.
Synonyms:	mouse anti-GFP antibody HRP conjugation, peroxidase conjugated mouse anti-GFP antibody, Green Fluorescent Protein, GFP antibody, Green Fluorescent Protein antibody, EGFP, enhanced Green Fluorescent Protein, <i>Aequorea victoria</i> , Jellyfish
Host Species:	Mouse
Conjugate:	Peroxidase (HRP)
Clonality:	Monoclonal
Clone ID:	9F9.F9
Format:	IgG

Target Details

Reactivity:	GFP, eGFP, rGFP
Immunogen Type:	Recombinant Protein

Immunogen:	Anti-Green Fluorescent Protein (GFP) is produced by immunizing GFP containing fusion protein that corresponds to the full length amino acid sequence (246aa) derived from the jellyfish <i>Aequorea victoria</i> .
Purity/Specificity:	GFP Antibody Peroxidase Conjugate was prepared from tissue culture supernatant by Protein A affinity chromatography. Assay by Immunoelectrophoresis resulted in a single precipitin arc against anti-peroxidase and anti-Mouse Serum. Reactivity is observed against recombinant Green Fluorescent Protein (000-001-215, recombinant GFP from <i>Aequorea victoria</i>) by both Western blot and ELISA. No reaction is seen against RFP.
Relevant Links:	UniProtKB - P42212

Application Details

Tested Applications:	ELISA, WB
Application Note:	Monoclonal anti-GFP is designed to detect enhanced GFP and GFP containing recombinant proteins. This antibody was tested by western blot and ELISA. It can be used to detect GFP by ELISA (sandwich or capture) for the direct binding of antigen. Biotin conjugated monoclonal anti-GFP is well suited to titrate GFP in a sandwich ELISA in combination with Rockland's polyclonal anti-GFP (600-101-215) as the capture antibody. Only use the monoclonal form for the detection of enhanced or recombinant GFP. Polyclonal anti-GFP detects all variants of GFP tested to date. The biotin conjugated detection antibody is typically used with streptavidin conjugated HRP (code # S000-03) or other streptavidin conjugates. The use of polyclonal anti-GFP results in significant amplification of signal when fluorochrome conjugated polyclonal anti-GFP is used relative to the fluorescence of GFP alone. For immunoblotting use either alkaline phosphatase or peroxidase conjugated anti-GFP to detect GFP or GFP containing proteins on western blots. Optimal titers for applications should be determined by the researcher.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:20,000 - 1:80,000
IHC:	1:500 - 1:2,000
WB:	1:2,000 - 1:5,000

Formulation

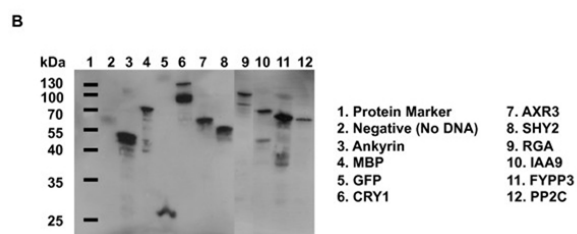
Physical State:	Lyophilized
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Thimerosal
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free

Reconstitution Volume:	1.0 mL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	Store vial at 4° C prior to restoration. 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:	Expiration date is one (1) year from date of receipt.

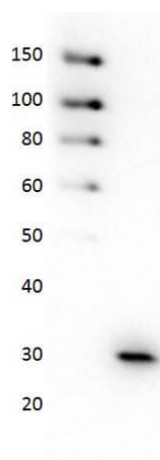
Images



Western Blot

B. Protein Product Characterization. After cell-free expression, the target proteins were analyzed by western blotting, using peroxidase-labeled anti-GFP antibody for detection. Expected sizes in kDa: Ankyrin-repeat, 49.8; MBP, 70.2; GFP 27.3; CRY1, 106.4; AXR3, 55.9; SHY2, 52.1; RGA, 95.3; IAA9, 66.2; FYPP3, 62.6; PP2C, 60.5.

Fig 8. PMID: 20546627



Western Blot

Western Blot of Anti-GFP Monoclonal Antibody Peroxidase Conjugate. Lane 1: Super Signal Molecular Weight Marker. Lane 2: 50ng of GFP. Primary antibody: Mouse Anti-GFP Peroxidase Conjugated Antibody (p/n 600-303-215) at 1:1000 overnight at 2-8°C. Secondary antibody: none. Block: BlockOut - Universal Blocking Buffer (p/n MB-073). Predicted/Observed size: 28kDa for GFP. Other band(s): none.

**Western Blot**

Western Blot of Anti-GFP (MOUSE) Monoclonal Antibody Peroxidase Conjugate. Lane 1: 50ng of GFP. Lane 2: none. Primary antibody: none. Secondary antibody: Anti-GFP (MOUSE) Monoclonal Antibody Peroxidase Conjugate (p/n 600-303-215) secondary antibody was used at 1:1000 for 45 min at RT. Block: 1% BSA-TTBS (p/n MB-013, diluted to 1X) 30 min at 20°C. Predicted/Observed size: 28 kDa for GFP. Other band(s): none.

References

- Lines M et al. The Dishevelled C-terminus interacts with the centrosomal protein Kizuna to regulate microtubule organization during ciliogenesis. *bioRxiv [Preprint]*. (2025)
- Zárate, X et al. Development of high-yield autofluorescent protein microarrays using hybrid cell-free expression with combined Escherichia coli S30 and wheat germ extracts. *Proteome Science* (2010)

Disclaimer

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. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.