

Anti-RFP Antibody

Catalog no. R10367

Table 1. Contents and storage information.

Material	Amount	Storage	Stability
RFP, rabbit polyclonal antibody – unconjugated	100 µg	<ul style="list-style-type: none"> • ≤-20°C • Desiccate • Protect from light 	When stored as directed, the product is stable for 6 months from the date of receipt.

Introduction

Red fluorescent proteins (RFP) are versatile markers for visualizing protein localization, monitoring physiological processes, and detecting transgenic expression. This affinity-purified, rabbit polyclonal anti-RFP antibody can be used to detect native RFP, RFP variants, and RFP fusion proteins in western blot, immunoprecipitation, ELISA, and immunocytochemistry applications (Figure 1).

Full-length recombinant denatured and non-denatured TagRFP was used as the immunogen, producing an antibody able to detect denatured and native TurboRFP, TurboFP602, TurboFP635, TagRFP, TagFP635, and mKate2.

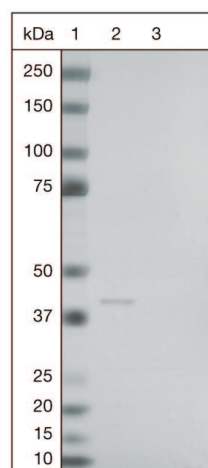


Figure 1. Specificity of anti-RFP on western blot. 10 µg of protein lysates from U-2 OS cells expressing Cellular Lights™ Histone 2B-RFP (lane 2, Cat. no. C10128) or Histone 2B-GFP (lane 3, Cat. no. C10129). Anti-RFP antibody detects the Cellular Lights™ Histone 2B-RFP (~41 kDa) but not the Histone 2B-GFP fusion protein.

Before Starting

Materials Required but Not Provided

Anti-rabbit secondary antibodies to detect the anti-RFP antibody

Preparing the anti-RFP antibody stock solution

To prepare a 1 mg/mL stock solution, add 100 µL of sterile water or 50% glycerol to the vial. If desired, aliquot the antibody upon reconstitution to produce single-use samples and maximal storage. The antibody was lyophilized in buffer containing 0.01 M Na₂PO₄, 0.1M NaCl, 0.25 mg/mL gelatin, and 1% trehalose, pH 7.4.

- Store the antibody reconstituted with sterile water at 4°C. When stored as directed, the antibody solution is stable for 3 months. Avoid repeated freeze and thaw cycles.
- Store the antibody reconstituted with 50% glycerol at –20°C. When stored as directed, the antibody solution is stable for 6 months. Avoid repeated freeze and thaw cycles.

Experimental Protocol

Because protocols vary with application, empirically determine the appropriate dilution of the anti-RFP antibody.

It is a good practice to centrifuge the protein conjugate solutions briefly in a microcentrifuge before use; add only the supernatant to the experiment. This step eliminates any protein aggregates that may have formed during storage, and reduces nonspecific background staining.

Table 2. Recommended antibody dilutions.

Application	Dilution
Western blot	1:3,000 to 1:7,000
Immunocytochemistry	1:5,000
ELISA	1:10,000 to 1:14,000
*Optimal dilutions should be determined by the end user.	

Product List Current prices may be obtained from our website or from our Customer Service Department.

Cat. no.	Product Name	Unit Size
R10367	RFP, rabbit polyclonal antibody – unconjugated	100 µg
Related Products		
A6455	anti-green fluorescent protein, rabbit serum (anti-GFP, serum)	100 µL
A10259	anti-green fluorescent protein, rabbit IgG fraction, biotin-XX conjugate (anti-GFP, IgG, biotin-XX conjugate) *2 mg/mL*	100 µL
A10260	anti-green fluorescent protein, rabbit IgG fraction, horseradish peroxidase conjugate (anti-GFP, IgG, HRP)	200 µg
A10262	anti-green fluorescent protein, chicken IgY fraction (anti-GFP, IgY) *2 mg/mL*	100 µL
A10263	anti-green fluorescent protein, chicken IgY fraction, biotin-XX conjugate (anti-GFP, IgY, biotin-XX conjugate) *2 mg/mL*	100 µL
A11120	anti-green fluorescent protein, mouse IgG2a, monoclonal 3E6 (anti-GFP, mAb 3E6)	100 µg
A11121	anti-green fluorescent protein, mouse IgG1, monoclonal 11E5 (anti-GFP, mAb 11E5)	100 µg
A11122	anti-green fluorescent protein, rabbit IgG fraction (anti-GFP, IgG) *2 mg/mL*	100 µL
A21311	anti-green fluorescent protein, rabbit IgG fraction, Alexa Fluor® 488 conjugate (anti-GFP, IgG, Alexa Fluor® 488 conjugate) *2 mg/mL*	100 µL
A21312	anti-green fluorescent protein, rabbit IgG fraction, Alexa Fluor® 594 conjugate (anti-GFP, IgG, Alexa Fluor® 594 conjugate) *2 mg/mL*	100 µL
A31851	anti-green fluorescent protein, rabbit IgG fraction, Alexa Fluor® 555 conjugate (anti-GFP, IgG, Alexa Fluor® 555 conjugate) *2 mg/mL*	100 µL
A31852	anti-green fluorescent protein, rabbit IgG fraction, Alexa Fluor® 647 conjugate (anti-GFP, IgG, Alexa Fluor® 647 conjugate) *2 mg/mL*	100 µL
G10362	GFP, ABfinity™ recombinant rabbit monoclonal antibody – unconjugated (anti-GFP, rabbit mAb)	100 µg

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