

## Product datasheet for R1461HRP

### GFP Mouse Monoclonal Antibody [Clone ID: 9F9.F9]

#### Product data:

**Product Type:** Primary Antibodies

**Clone Name:** 9F9.F9

**Applications:** ELISA, IHC, WB

**Recommended Dilution:** 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 (*Cat.-No* RA021HRP). 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.  
ELISA: 1/20,000-1/80,000.  
Western blot: 1/2,000-1/5,000.  
Immunohistochemistry: 1/500-1/2,500.

**Reactivity:** A. victoria

**Host:** Mouse

**Isotype:** IgG1, kappa

**Clonality:** Monoclonal

**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*

**Specificity:** Assay by Immunoelectrophoresis resulted in a single precipitin arc against anti-Goat Serum, anti-Peroxidase and purified and partially purified Green Fluorescent Protein (*Aequorea victoria*) Serum.

Reactivity is observed against recombinant Green Fluorescent Protein (recombinant GFP from *Aequorea victoria*) by both Western blot and ELISA.

No reaction is seen against RFP.



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<b>Formulation:</b>	0.02M Potassium Phosphate, 0.15M Sodium Chloride, pH 7.2 Label: HRP State: Lyophilized purified Ig fraction from tissue culture supernatant Stabilizer: 10 mg/ml BSA (IgG and Protease free) Preservative: 0.01% (w/v) Thimerisol Label: Horseradish Peroxidase
<b>Reconstitution Method:</b>	Restore with 1.0 ml of deionized water (or equivalent).
<b>Concentration:</b>	lot specific
<b>Purification:</b>	Affinity Chromatography on Protein A
<b>Conjugation:</b>	HRP
<b>Storage:</b>	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>Database Link:</b>	<a href="#">P42212</a>
<b>Background:</b>	<p>Green fluorescence protein (GFP) is a 27 kDa protein derived from the jellyfish <i>Aequorea victoria</i>, which emits green light (emission peak at a wavelength of 509 nm) when excited by blue light (excitation peak at a wavelength of 395 nm). Green Fluorescent Protein (GFP) has become an invaluable tool in cell biology research, since its intrinsic fluorescence can be visualized in living cells. GFP fluorescence is stable under fixation conditions and suitable for a variety of applications. GFP has been widely used as a reporter for gene expression, enabling researchers to visualize and localize GFP-tagged proteins within living cells without the need for chemical staining. Other applications of GFP include assessment of protein-protein interactions through the yeast two hybrid system and measurement of distance between proteins through fluorescence energy transfer (FRET) protocols. GFP technology has considerably contributed to a greater understanding of cellular physiology.</p> <p>YFP differs from GFP due to a mutation at T203Y; antibodies raised against full-length GFP should also detect YFP and other variants.</p>
<b>Synonyms:</b>	Green fluorescent protein, GFP-Tag

## Product images:



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 (Cat.- No R1461HRP) secondary antibody was us