

Product datasheet for **R1461P**

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

Product data:

Product Type: Primary Antibodies

Clone Name: 9F9.F9

Applications: ELISA, FC, IHC, WB

Recommended Dilution: **ELISA:** 1/80,000-1/500,000.

This antibody can be used to detect GFP by ELISA (sandwich or capture) for the direct binding of antigen. Biotin conjugated monoclonal anti-GFP used in a sandwich ELISA is well suited to titrate GFP in solution using this antibody in combination with a polyclonal anti-GFP (R1091P) using either form of the antibody as the capture or detection antibodies. Only use the monoclonal form for the detection of wild type or recombinant GFP as this form does not sufficiently detect 'enhanced' GFP. Polyclonal anti-GFP detects all variants of GFP tested to date. The detection antibody is typically conjugated to biotin and subsequently reacted with streptavidin conjugated HRP (*Cat.-No* RA021HRP).

Western blot: 1/3,000-1/30,000.

For immunoblotting use either alkaline phosphatase or peroxidase conjugated polyclonal anti-GFP to detect GFP or GFP containing proteins on Western blots.

Immunohistochemistry: 1/1,000-1/5,000.

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.

While not yet tested, this antibody will likely detect GFP and GFP containing proteins by immunofluorescence microscopy, with properties similar to its companion polyclonal antibody.

Flow cytometry.

Successful use in **Immunoprecipitation** was reported by some researchers. As this detection method has not been verified by Acris Antibodies, the application was deleted from the database. This does not necessarily exclude the use in such procedure.

Reactivity: A. victoria

Host: Mouse

Isotype: IgG1, kappa

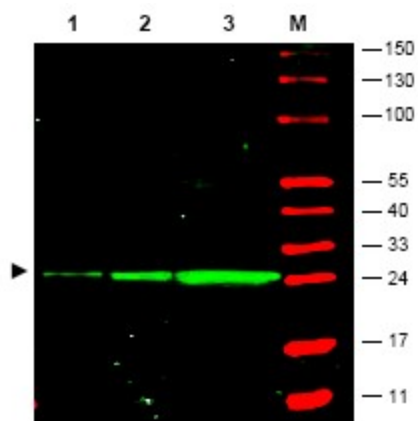
Clonality: Monoclonal



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Immunogen:	GST-Green Fluorescent Protein (GFP) fusion protein corresponding to the full length amino acid sequence (246aa) derived from the jellyfish <i>Aequorea victoria</i>
Specificity:	<p>Monoclonal anti-GFP is designed to detect native GFP and GFP containing recombinant proteins.</p> <p>Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Mouse Serum and purified and partially purified Green Fluorescent Protein (<i>Aequorea victoria</i>). Reactivity is observed against wild type, recombinant and enhanced forms of GFP. No reaction is seen against RFP.</p>
Formulation:	<p>0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2</p> <p>State: Purified</p> <p>State: Liquid (sterile filtered) purified Ig fraction</p> <p>Stabilizer: None</p> <p>Preservative: 0.01% (w/v) Sodium Azide</p>
Concentration:	lot specific
Purification:	Protein A affinity chromatography
Conjugation:	Unconjugated
Storage:	<p>Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.</p> <p>Avoid repeated freezing and thawing.</p>
Stability:	Shelf life: one year from despatch.
Database Link:	P42212
Background:	<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>
Synonyms:	Green fluorescent protein, GFP-Tag

Product images:



Western blot of GFP recombinant protein detected with monoclonal anti-GFP antibody. GFP recombinant protein was expressed in HeLa cells, where 50 ng (lane 1), 100 ng (lane 2) and 500 ng (lane 3) of lysate were loaded per lane. Anti-GFP detects a 27 kDa band