

Product datasheet for **TA397411S**

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

Product data:

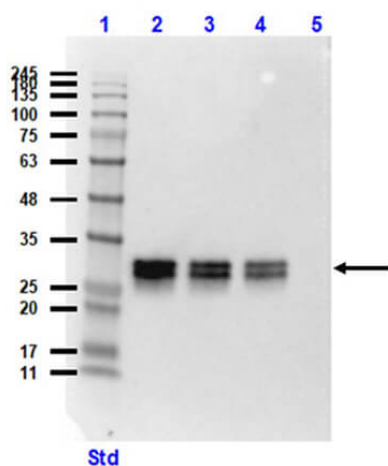
Product Type:	Primary Antibodies
Clone Name:	9F9.F9
Applications:	ELISA, FC, IF, IHC, WB
Recommended Dilution:	WB: 1:300 - 1:30,000 IHC: 1:1,000 - 1:5,000 IF: User Optimized FC: User Optimized ELISA: 1:80,000 - 1:500,000
Host:	Mouse
Isotype:	IgG1, kappa
Clonality:	Monoclonal
Immunogen:	Recombinant Green Fluorescent Protein (GFP) fusion protein corresponding to the full length amino acid sequence (246 aa) derived from the jellyfish <i>Aequorea victoria</i> .
Specificity:	GFP Monoclonal Antibody was prepared from tissue culture supernatant by Protein A affinity chromatography. Assay by Immunoelectrophoresis resulted in a single precipitin arc against anti-Mouse Serum. Reactivity is observed against recombinant Green Fluorescent Protein (000-001-215) from <i>Aequorea victoria</i> by both Western blot and ELISA. No reaction is seen against RFP.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Concentration:	1.0 mg/ml - lot specific
Conjugation:	Unconjugated
Storage:	Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.
Stability:	Expiration date is one (1) year from date of receipt.
Database Link:	P42212



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- Background:** Mouse anti-GFP antibody is functional by western blot, ELISA, Immunofluorescence Microscopy and Immunohistochemistry. Green fluorescent protein is a 27 kDa protein produced from the jellyfish *Aequorea victoria*, 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, Green Fluorescent Protein, GFP antibody, Green Fluorescent Protein antibody, EGFP, enhanced Green Fluorescent Protein, *Aequorea victoria*, Jellyfish
- Note:** Monoclonal anti-GFP is designed to detect enhanced GFP and GFP containing recombinant proteins. Tested in ELISA, IP, and WB and suitable in FACS, IHC, IF. This antibody 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.

Product images:



Western blot of Mouse Anti-GFP Antibody. Lane 1: Opal Prestained Molecular Weight Marker (p/n MB-210-0500). Lane 2: HeLa WC Lysate+GFP protein (p/n W09-000-364 [10µg]/ p/n 000-001-215 [50ng]). Lane 3: HeLa WC Lysate+GFP protein (10µg/20ng). Lane 4: HeLa WC Lysate+GFP protein (10µg/10ng). Lane 5: HeLa Whole Cell Lysate (p/n W09-000-364) (10µg). Primary Antibody: Anti-GFP at 1:1000 overnight at 2-8°C. Secondary Antibody: Rabbit Anti-Mouse IgG HRP (p/n 610-4302) at 1:40,000 for 30mins at RT. Block: BlockOut Buffer (p/n MB-073). Expected MW: ~27kDa.