

## Datasheet for 600-305-215

**GFP Antibody Alkaline Phosphatase Conjugated****Overview**

<b>Description:</b>	Anti-GFP (MOUSE) Monoclonal Antibody Alkaline Phosphatase Conjugated - 600-305-215
<b>Item No.:</b>	600-305-215
<b>Size:</b>	1 mg
<b>Applications:</b>	ELISA, WB, Biochemical Assay
<b>Reactivity:</b>	GFP, eGFP, rGFP
<b>Host Species:</b>	Mouse

**Product Details**

<b>Background:</b>	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.
<b>Synonyms:</b>	mouse anti-GFP antibody alkaline phosphatase conjugation, alk phos conjugated mouse anti-GFP antibody, Green Fluorescent Protein, GFP antibody, Green Fluorescent Protein antibody, EGFP, enhanced Green Fluorescent Protein, <i>Aequorea victoria</i> , Jellyfish
<b>Host Species:</b>	Mouse
<b>Conjugate:</b>	Alkaline Phosphatase (AP)
<b>Clonality:</b>	Monoclonal
<b>Clone ID:</b>	9F9.F9
<b>Format:</b>	IgG

**Target Details**

<b>Reactivity:</b>	GFP, eGFP, rGFP
<b>Immunogen Type:</b>	Recombinant Protein

<b>Immunogen:</b>	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> .
<b>Purity/Specificity:</b>	GFP Antibody Alkaline Phosphatase Conjugated was prepared from tissue culture supernatant by Protein A affinity chromatography. Assay by Immunoelectrophoresis resulted in a single precipitin arc against anti-Mouse Serum, anti-Alkaline Phosphatase, purified and partially purified Green Fluorescent Protein ( <i>Aequorea victoria</i> ). 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.
<b>Relevant Links:</b>	<ul style="list-style-type: none"><li>• <a href="#">UniProtKB - P42212</a></li></ul>

## Application Details

<b>Tested Applications:</b>	ELISA, WB
<b>Suggested Applications:</b>	Biochemical Assay (Based on references)
<b>Application Note:</b>	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.
<b>Assay Dilutions:</b>	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
<b>ELISA:</b>	1:2,000 - 1:12,000
<b>IHC:</b>	1:200 - 1:1,000
<b>WB:</b>	1:500 - 1:2,500

## Formulation

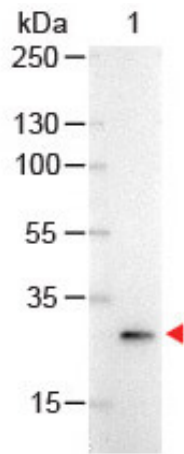
<b>Physical State:</b>	Liquid (sterile filtered)
<b>Concentration:</b>	1.0 mg/mL by UV absorbance at 280 nm

<b>Buffer:</b>	0.05 M Tris Chloride, 0.15M Sodium Chloride, 0.001M Magnesium Chloride, 0.0001M Zinc Chloride, 50% (v/v) Glycerol; pH 8.0
<b>Preservative:</b>	0.01% (w/v) Sodium Azide
<b>Stabilizer:</b>	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free

## Shipping & Handling

<b>Shipping Condition:</b>	Wet Ice
<b>Storage Condition:</b>	Store vial at 4° C before opening. DO NOT FREEZE. This product is stable at 4° C as an undiluted liquid. Dilute only prior to immediate use. Freezing alkaline phosphatase conjugates will result in a substantial loss of enzymatic activity.
<b>Expiration:</b>	Expiration date is one (1) year from date of receipt.

## Images



### Western Blot

Western Blot of Mouse anti-GFP Antibody Alkaline Phosphatase Conjugated. Lane 1: GFP. Load: 100 ng per lane. Primary antibody: none. Secondary antibody: GFP Antibody Alkaline Phosphatase Conjugated Mouse Secondary at 1:1,000 for 60 min at RT. Block: MB-070 for 30 min at RT. Predicted/Observed size: 28 kDa, 28 kDa.

## References

- Maeda, Y et al. Peptide-mediated microalgae harvesting method for efficient biofuel production. *Biotechnology for Biofuels* (2016)
- Maeda, Y et al. Oleosome-associated protein of the oleaginous diatom *Fistulifera solaris* contains an endoplasmic reticulum-targeting signal sequence. *Marine Drugs* (2014)

## Disclaimer

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