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Datasheet for 600-406-215

GFP Antibody Biotin Conjugated

Overview

Description:	Anti-GFP (RABBIT) Antibody Biotin Conjugated - 600-406-215
Item No.:	600-406-215
Size:	100 µg
Applications:	ELISA, WB, IF, IHC, Other, Purification
Reactivity:	GFP, eGFP, rGFP
Host Species:	Rabbit

Product Details

Background:	GFP Antibody is produced from Green fluorescent protein which 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:	rabbit anti-GFP antibody biotin conjugation, biotin conjugated rabbit anti-GFP antibody, Green Fluorescent Protein, GFP antibody, Green Fluorescent Protein antibody, EGFP, enhanced Green Fluorescent Protein, Aequorea victoria, Jellyfish
Host Species:	Rabbit
Conjugate:	Biotin
Clonality:	Polyclonal
Format:	IgG

Target Details

Reactivity:	GFP, eGFP, rGFP
Immunogen Type:	Recombinant Protein
Immunogen:	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 Aequorea victoria.

Purity/Specificity:	Anti-GFP was prepared from monospecific antiserum by immunoaffinity chromatography using Green Fluorescent Protein (Aequorea victoria) coupled to agarose beads followed by solid phase adsorption(s) to remove any unwanted reactivities. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Rabbit Serum, anti-Biotin and purified and partially purified Green Fluorescent Protein (Aequorea victoria). No reaction was observed against Human, Mouse and Rat Serum Proteins.
Relevant Links:	• UniProtKB - P42212

Application Details

Tested Applications:	ELISA, WB
Suggested Applications:	IF, IHC, Other, Purification (Based on references)
Application Note:	Biotin Conjugated GFP Antibody has been tested by ELISA and western blot and is suitable for immunoblotting, ELISA, immunohistochemistry, immunomicroscopy as well as other antibody based assays using streptavidin or avidin conjugates requiring lot-to-lot consistency.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000 - 1:50,000
IF:	1:5,000
IHC:	1:1,000 - 1:5,000
WB:	1:2,000 - 1:10,000

Formulation

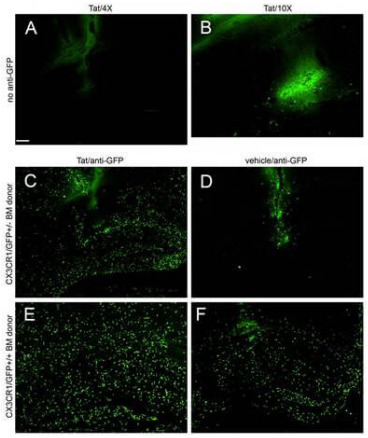
Physical State:	Lyophilized
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Reconstitution Volume:	100 µL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition:	Ambient

Storage Condition:	Store Anti-GFP at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Immunofluorescence Microscopy
Immuno-Fluorescence of Biotin Mouse anti-GFP antibody used at 1:5000.
Montage of microscopic fields 24 hours after Tat (Panels A–C, E) or control vehicle (Panels D, F) injection into the right hippocampus of irradiation chimeras. Images in Panels A, B, C, and D were taken from CD45.1 host mice engrafted with heterozygous CX3CR1/GFP+/− bone marrow, whereas images E and F were from CD45.1 host mice engrafted with homozygous CX3CR1/GFP+/+ bone marrow. A, C, D, E, and F were taken with a 4× objective with the same 0.9 sec exposure time and B was taken with a 10× objective with a longer exposure time (4 sec) to intensify the weak fluorescence of the GFP signal. Panel A and B depict very low expression of fluorescence from infiltrating GFP expressing leukocytes, while Panels C–F depict amplified GFP expression with anti-GFP antibody and Alexa 488 conjugated second antibody treatment. All experimental and control groups, n = 3 independent replicates. Scale bar = 100 µm for Panels A, C, D, E, and F; 40 µm for B. Fig 2. PMID: 21912650.



Western Blot
Western Blot of Peroxidase conjugated Goat anti-Rabbit IgG antibody. Lane 1: 50ng of GFP. Lane 2: none. Primary antibody: none. Secondary antibody: Anti-GFP Antibody Biotin Conjugated secondary antibody was used at 1:5000 in Blocking Buffer for Fluorescent Western Blotting (p/n MB-070) for 45 min at RT. HRP Streptavidin (p/n S000-03) was used at 1:40,000 in MB-070 for 30 min at 20°C. Block: 5% Blotto (p/n B501-0500) 30 min at 20°C. Predicted/Observed size: 28 kDa for GFP. Other band(s): none.

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