

Datasheet for 200-342-215**GFP Antibody DyLight™ 549 Conjugated****Overview**

Description:	Anti-GFP (MOUSE) Monoclonal Antibody DyLight™ 549 Conjugated - 200-342-215
Item No.:	200-342-215
Size:	100 µg
Reactivity:	GFP, eGFP, rGFP
Host Species:	Mouse

Product Details

Background:	GFP monoclonal antibody is DyLight™ 549 Conjugated. Labeled GFP Antibody is designed for immunofluorescence microscopy, fluorescence based plate assays (FLISA) and fluorescent western blotting. This product is also suitable for multiplex analysis, including multicolor imaging, utilizing various commercial platforms. DyLight™ dyes are exceptionally bright and photostable and are optimized for microscopy and microarray detection methods.
Synonyms:	mouse anti-GFP Antibody DyLight™ 549 Conjugation, DyLight™ 549 Conjugated mouse anti-GFP Antibody, GFP, Green Fluorescent Protein, GFP antibody, Green Fluorescent Protein antibody, EGFP, enhanced Green Fluorescent Protein, Aequorea victoria, Jellyfish
Host Species:	Mouse
Conjugate:	DyLight™ 549
Clonality:	Monoclonal
Clone ID:	9F9.F9
Format:	IgG1
F/P Ratio:	4.0

Target Details

Reactivity:	GFP, eGFP, rGFP
Immunogen Type:	Recombinant Protein

Immunogen:	BALB/c mice were immunized with a Green Fluorescent Protein (GFP) fusion protein corresponding to the full length amino acid sequence (246 aa) derived from the jellyfish <i>Aequorea victoria</i> . A hybridoma was produced by the fusion of BALB/c mouse splenocytes and myeloma cells using conventional hybridoma technology.
Purity/Specificity:	GFP Dylight™ 549 Conjugated 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, recombinant GFP from <i>Aequorea victoria</i>) by Western blot. No reaction is seen against RFP.
Relevant Links:	• UniProtKB - P42212

Application Details

Application Note:	The emission spectra for this DyLight™ conjugate match the principle output wavelengths of most common fluorescence instrumentation.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
FLISA:	>1:20,000
IF:	>1:5,000
WB:	1:10,000 - 1:25,000

Formulation

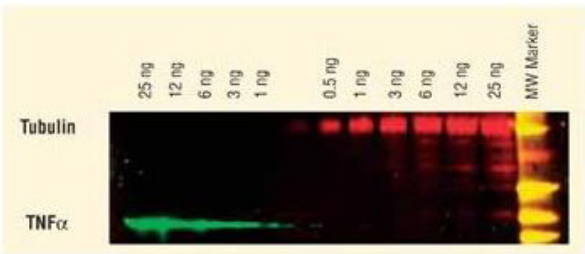
Physical State:	Lyophilized
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Reconstitution Volume:	100 µL
Reconstitution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

Shipping & Handling

Shipping Condition:	Ambient
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Storage Condition:	Store vial 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



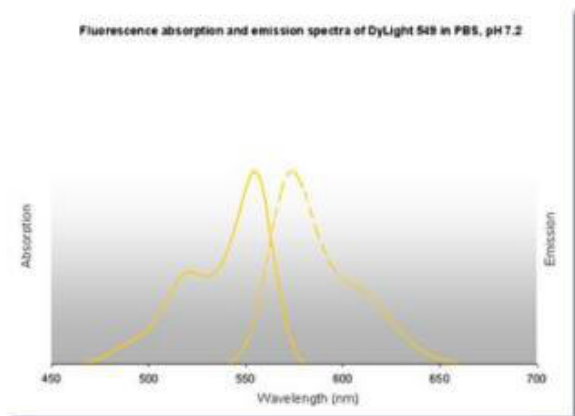
Western Blot

Two-color Western Blot using a DyLight™ 549 and DyLight™ 649 conjugate. Lane 1-5: 25ng, 12ng, 6ng, 3ng, and 1ng of TNFα. Lane 6-11: 0.5ng, 1ng, 3ng, 6ng, 12ng, 25ng of Tubulin. Lane 12: Molecular Weight. Primary antibody: none. Secondary antibody: DyLight™ 549 and DyLight™ 649 mouse secondary antibody at 1:10,000. Block: MB-070 for 2 hrs at RT. Predicted size: 17kDa TNFα and 55kDa Tubulin. Other band(s): none.

Diagram

Properties of DyLight™549 Fluorescent Dye and similar dyes. The emission spectra for this DyLight™ conjugate match the principle output wavelengths of most common fluorescence instrumentation.

Emission	Color	DyLight™ Dye	Ex/Em (nm)	ε (M ⁻¹ cm ⁻¹)	Similar Dyes
Green		488	493/518	70,000	Alexa™ 488, Cy2®, FITC
Yellow		549	550/568	150,000	Alexa™ 546, Alexa 555, Cy3®, TRITC
Red		649	646/674	250,000	Alexa™ 647, Cy5®
Near Infrared		680	682/715	140,000	Alexa™ 680, Cy5.5®, IRDye™ 700
Infrared		800	770/794	270,000	IRDye™ 800



Diagram

Properties of DyLight™ Fluorescent Dyes.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.