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www.rockland.com
tech@rockland.com
+1 484.791.3823

Datasheet for 600-143-215

GFP Antibody Dylight™ 649 Conjugated

Overview

Description:	Anti-GFP (GOAT) Antibody DyLight™ 649 Conjugated (Min X Hu Ms & Rt Serum Proteins) - 600-143-215
Item No.:	600-143-215
Size:	100 µg
Applications:	WB
Reactivity:	GFP, eGFP, rGFP
Host Species:	Goat

Product Details

Background:	GFP Dylight™ 649 Conjugated 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.
Synonyms:	goat anti-GFP Antibody DyLight™ 649 Conjugation, DyLight™ 649 conjugated goat anti-GFP antibody, Green Fluorescent Protein, GFP antibody, Green Fluorescent Protein antibody, EGFP, enhanced Green Fluorescent Protein, Aequorea victoria, Jellyfish
Host Species:	Goat
Conjugate:	DyLight™ 649
Clonality:	Polyclonal
Format:	IgG
F/P Ratio:	3.0

Target Details

Reactivity:	GFP, eGFP, rGFP
Immunogen Type:	Recombinant Protein
Immunogen:	The immunogen is a Green Fluorescent Protein (GFP) fusion protein corresponding to the full length amino acid sequence (246aa) derived from the jellyfish Aequorea victoria.

Purity/Specificity:	GFP Dylight™ 649 Conjugated Antibody 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-Goat Serum and purified and partially purified Green Fluorescent Protein (Aequorea victoria). No reaction was observed against Human, Mouse or Rat serum proteins.
Relevant Links:	• UniProtKB - P42212

Application Details

Tested Applications:	WB
Application Note:	Anti-GFP Dylight™ 649 Conjugated Antibody has been tested by western blot. 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.
ELISA:	1:20,000 - 1:40,000
FLISA:	>1:10,000
IF:	>1:5,000
WB:	1:10,000-1:25,000

Formulation

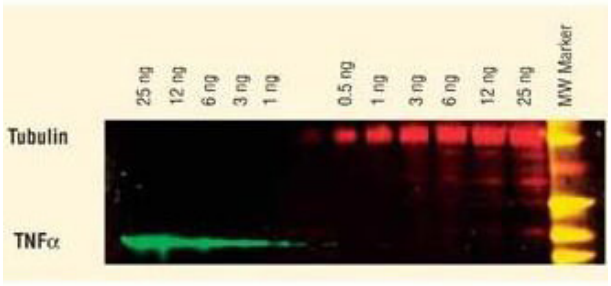
Physical State:	Lyophilized
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Reconstitution Volume:	100 µL
Reconstitution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

Shipping & Handling

Shipping Condition:	Ambient

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.

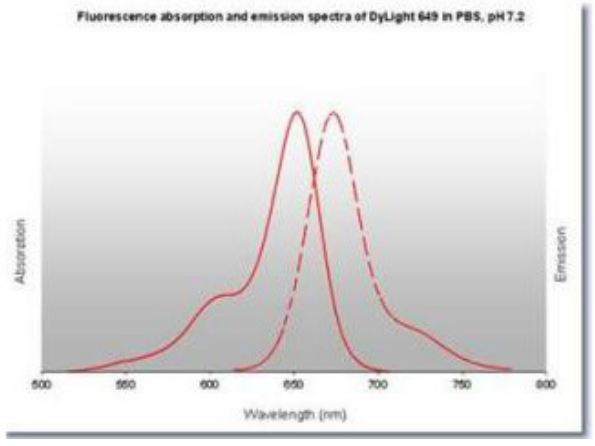


Diagram
Properties of Dylight™ Flourescent Dyes. Fluorescence absorption and emission spectra of DyLight™ 549 in PBS, pH7.2. The emission spectra for this DyLight™ conjugate match the principle output wavelengths of most common fluorescence instrumentation.

Diagram
Properties of DyLight™ Conjugates.

Emission	Color	DyLight™ Dye	Ex/Em (nm)	ε (M^{-1} cm^{-1})	Similar Dyes
Blue		**405**	**400/420**	**30,000**	**Alexa™ 405, Cascade Blue**
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

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