Anti-GFP (MOUSE) Monoclonal Antibody DyLight™ 549 Conjugated - 200-342-215

Code: 200-342-215 **Size:** 100 µg

Product Description: Anti-GFP (MOUSE) Monoclonal Antibody DyLight™ 549 Conjugated - 200-342-215

Concentration: 1.0 mg/mL by UV absorbance at 280 nm

PhysicalState: Lyophilized

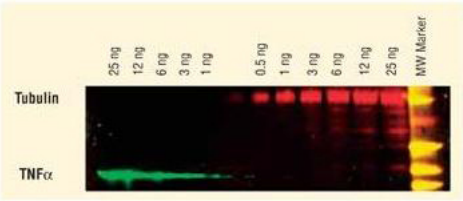
Label	DyLight™ 549
Host	Mouse
Emission Wavelength	568
Excitation Wavelength	550
Species Reactivity	wt, rGFP, eGFP
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Reconstitution Volume	100 µL
Reconstitution Buffer	Restore with deionized water (or equivalent)
Stabilizer	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Preservative	0.01% (w/v) Sodium Azide
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.
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
Application Note	The emission spectra for this DyLight™ conjugate match the principle output wavelengths of most common fluorescence instrumentation.
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.
Purity And 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 Aequorea victoria) by Western blot. No reaction is seen against RFP.
Assay Dilutions	User Optimized
Western Blot	1:10,000 - 1:25,000
FLISA	>1:20,000
IF Microscopy	>1:5,000
Other Assays	User Optimized
Expiration	Expiration date is one (1) year from date of opening.
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 Aequorea victoria. A hybridoma was produced by the fusion of BALB/c mouse splenocytes and myeloma cells using conventional hybridoma technology.
Related Products	

200-301-268 Anti-AKT pS473 (MOUSE) Monoclonal Antibody - 200-301-268

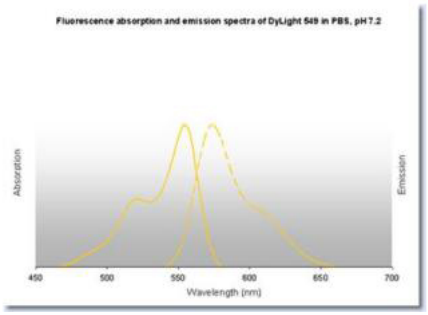
610-4302	Anti-MOUSE IgG (H&L) (RABBIT) Antibody Peroxidase Conjugated - 610-4302
611-1302	Anti-RABBIT IgG (H&L) (GOAT) Antibody Peroxidase Conjugated - 611-1302
B304	NORMAL GOAT SERUM (NGS) - B304

Images

1 Two-color Western Blot using a DyLight™ 549 and DyLight™ 649 conjugate. Lane 1-5: 25ng, 12ng, 6ng, 3ng, and 1ng of TNFa. 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 TNFa and 55kDa Tubulin. Other band(s): none.



2 Properties of DyLight™ Flourescent Dyes.



3 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

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