



Anti-BIOTIN (GOAT) Antibody DyLight™ 488 Conjugated - 600-141-098

Code: 600-141-098

Size: 100 µg

Product Description: Anti-BIOTIN (GOAT) Antibody DyLight™ 488 Conjugated - 600-141-098

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

PhysicalState: Lyophilized

Label	DyLight™ 488
Host	Goat
Emission Wavelength	518
Excitation Wavelength	493
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	Goat anti Biotin Antibody Dylight™ 488 Conjugated, Goat anti-biotin Antibody Dylight™ 488 Conjugated
Application Note	The emission spectra for this DyLight™ conjugate match the principle output wavelengths of most common fluorescence instrumentation. This product 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.
Background	Biotin Antibody detects Biotin. Biotin is a water-soluble B-complex vitamin (vitamin B7). It is composed of a ureido (tetrahydroimidizalone) ring fused with a tetrahydrothiophene ring. A valeric acid substituent is attached to one of the carbon atoms of the tetrahydrothiophene ring. Biotin is a coenzyme for carboxylase enzymes, involved in the synthesis of fatty acids, isoleucine, and valine, and in gluconeogenesis. Biotin is necessary for cell growth, the production of fatty acids, and the metabolism of fats and amino acids. Anti-Biotin DyLight Conjugated Antibody is ideal for investigators involved in Cell Signaling and Cell Biology research.
Purity And Specificity	This product was prepared from monospecific antiserum by immunoaffinity chromatography using Biotin coupled to sepharose beads. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Goat Serum, Biotin conjugated IgG and Biotin conjugated Bovine Serum Albumin.
Assay Dilutions	User Optimized
Western Blot	>1:10,000
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	Biotin conjugated to Keyhole Limpet Hemocyanin (b-KLH)

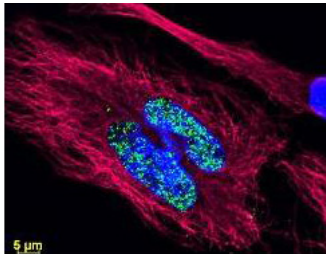
Related Products

200-301-268	Anti-AKT pS473 (MOUSE) Monoclonal Antibody - 200-301-268
B304	NORMAL GOAT SERUM (NGS) - B304
MB-070	Blocking Buffer for Fluorescent Western Blotting - MB-070
PA50-00-0002	SEPHAROSE™ PROTEIN A - PA50-00-0002

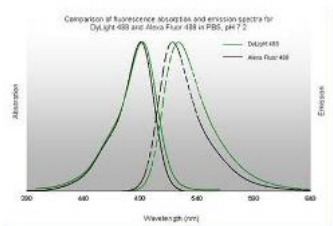
Images

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DyLight™ dyes can be used for multi-color immunofluorescence microscopy with uniform fluorescence intensity throughout the image. DyLight™ dyes are exceptionally bright and photostable and are optimized for microscopy and microarray detection methods. This image shows anti-histone detection using a DyLight™ 488 conjugate (green). Anti-Tubulin was detected using a DyLight™ 549 conjugate (red). Nuclei were counter-stained using DAPI (blue). The image was captured using an Axio Imager.Z1 (Zeiss Micro Imaging Inc).



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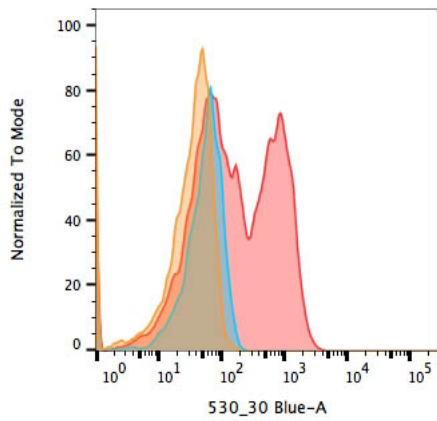
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Properties of DyLight™ Fluorescent Dyes.

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

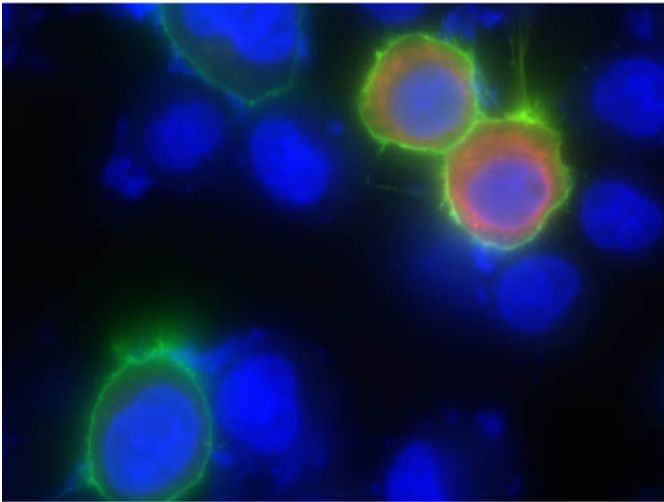
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Flow Cytometry of Goat anti-biotin DyLight 488 antibody. Cells were transiently transfected with a peroxidase-encoding plasmid and were incubated for 24 hours before carrying out a modified TSA reaction. Cells were fixed and permeabilized before probing with Rockland goat anti-biotin DyLight 488 at 1:5000 dilution for 2 hours at room temperature. Transfected and biotin supplemented population (red) is compared to transfected, non-supplemented (blue) and non-transfected, biotin supplemented (orange) controls. Image courtesy Ben Dyer, University of Pennsylvania.



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Immunofluorescence of Goat anti-biotin DyLight 488 antibody. Cells grown on glass coverslips were transiently transfected with a peroxidase-encoding plasmid and were incubated for 24 hours before carrying out a modified TSA reaction. Cells were fixed and permeabilized before probing with Rockland goat anti-biotin DyLight 488 at 1:1250 dilution for 2 hours at room temperature. Cells were washed before mounting on glass slides and imaged for biotin (green), DAPI (blue), and transfected peroxidase (red). Image courtesy Ben Dyer, University of Pennsylvania.



Disclaimer

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