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Datasheet for 612-141-002

Rat IgG (H&L) Antibody Dylight™ 488 Conjugated

Overview

Description:	Goat Anti-Rat IgG (H&L) Antibody DyLight™ 488 Conjugated - 612-141-002
Item No.:	612-141-002
Size:	100 µg
Applications:	WB, IHC
Reactivity:	Rat
Host Species:	Goat

Product Details

Background:	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.
Synonyms:	Goat Anti-Rat IgG DyLight 488™ Conjugated Antibody, Goat Anti-Rat IgG Antibody DyLight 488™ Conjugation
Host Species:	Goat
Specificity:	IgG (H&L)
Conjugate:	DyLight™ 488
Clonality:	Polyclonal
Format:	IgG
F/P Ratio:	5.2

Target Details

Reactivity:	Rat
Immunogen:	Rat IgG, whole molecule

Purity/Specificity:	This product was prepared from monospecific antiserum by immunoaffinity chromatography using Rat IgG coupled to agarose beads followed by conjugation to fluorochrome and extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Goat Serum, Rat IgG and Rat Serum. This antibody will react with heavy chains of Rat IgG and with light chains of most Rat immunoglobulins.

Application Details

Tested Applications:	WB
Suggested Applications:	IHC (Based on references)
Application Note:	Anti-Rat IgG DyLight™488 has been tested by western blot and is designed for immunofluorescence microscopy, fluorescence based plate assays (FLISA) and fluorescent western blotting. 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

Formulation

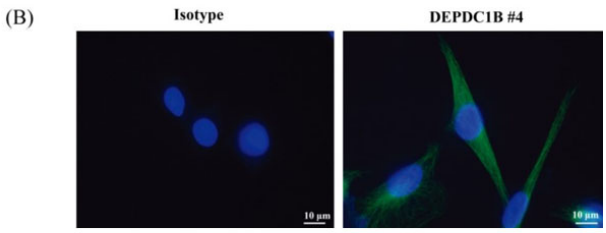
Physical State:	Lyophilized
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Reconstitution Volume:	100 µL
Reconstitution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

Shipping & Handling

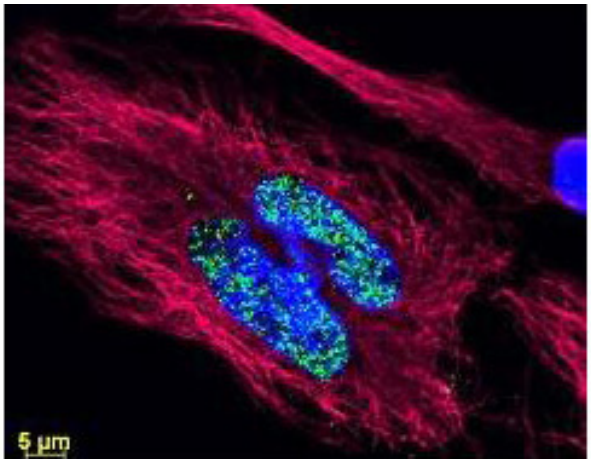
Shipping Condition:	Ambient

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.

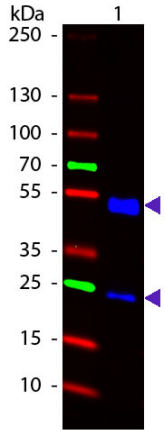
Images



Immunocytochemistry
Immunohistochemistry and immunocytochemistry of canine DEP domain-containing 1B (DEPDC1B). (B) DEPDC1B expression in a canine mammary gland tumor cell line CHM-p was assessed by immunocytochemical staining. CHM-p was fixed, stained with anti-canine DEPDC1B monoclonal antibody clone #4 or rat IgG2b, followed by DyLight 488-labelled anti-IgG antibody. DEPDC1B protein was visualized using fluorescence microscopy. Nuclei were stained with DAPI. Scale bar: 10 µm. Fig 2. 32147621.



Immunofluorescence Microscopy
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).



Western Blot
Western Blot of Dylight™ 488 conjugated Goat Anti-Rat IgG secondary antibody. Lane 1: Rat IgG. Lane 2: None. Load: 50 ng per lane. Primary antibody: None. Secondary antibody: Dylight™ 488 goat secondary antibody at 1:1,000 for 60 min at RT. Block: MB-070 for 30 min t RT. Predicted/Observed size: 25 & 55 kDa, 25 & 55 kDa for Rat IgG. Other band(s): None.

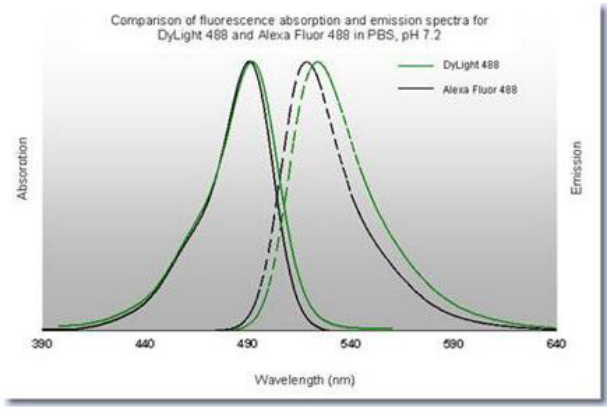


Diagram
DyLight™ 488 Fluorescence Spectra

Diagram
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

References

- Igase M. et al. Establishment of rat anti-canine DEP domain containing 1B (DEPDC1B) monoclonal antibodies. *J Vet Med Sci.* (2020)

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