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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com



Datasheet for 611-144-002

Rabbit IgG (H&L) Antibody DyLight™ 680 Conjugated

Overview

Description:	Goat Anti-Rabbit IgG (H&L) Antibody DyLight™ 680 Conjugated - 611-144-002			
Item No.:	611-144-002			
Size:	100 μg			
Applications:	Dot Blot, WB, IF, IP			
Reactivity:	Rabbit			
Host Species:	Goat			

Product Details

Background:	

Anti-Rabbit IgG Antibody DyLight™680 generated in goat detects rabbit IgG. Secreted as part of the adaptive immune response by plasma B cells, immunoglobulin G constitutes 75% of serum immunoglobulins. Immunoglobulin G binds to viruses, bacteria, as well as fungi and facilitates their destruction or neutralization via agglutination (and thereby immobilizing them), activation of the compliment cascade, and opsonization for phagocytosis. The whole IgG molecule possesses both the F(c) region, recognized by high-affinity Fc receptor proteins, as well as the F (ab) region possessing the epitope-recognition site. Both heavy and light chains of the antibody molecule are present. Secondary Antibodies are available in a variety of formats and conjugate types. When choosing a secondary antibody product, consideration must be given to species and immunoglobulin specificity, conjugate type, fragment and chain specificity, level of crossreactivity, and host-species source and fragment composition. This Anti-Rabbit IgG (H&L) is conjugated to DyLight™680.

	conjugated to DyLight™680. Goat anti-Rabbit IgG Antibody DyLight™680 Conjugation, Goat anti-Rabbit IgG DyLight™ 680 Conjugated Antibody		
Synonyms:			
Host Species:	Goat		
Specificity:	IgG (H&L)		
Conjugate:	DyLight™ 680		
Clonality:	Polyclonal		
Format:	IgG		
F/P Ratio:	2.8		
Specific Activity:	2.8		

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Target Details

Reactivity:	Rabbit IgG whole molecule This product was prepared from monospecific antiserum by immunoaffinity chromatography using Rabbit 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, Rabbit IgG and Rabbit Serum. This antibody will react with heavy chains of Rabbit IgG and with light chains of most Rabbit immunoglobulins.			
Immunogen:				
Purity/Specificity:				
Relevant Links:	• 611-144-002 SDS			

Application Details

Tested Applications:	Dot Blot, WB			
Suggested Applications:	IF, IP (Based on references) Anti-Rabbit IgG Antibody DyLight™680 has been tested by dot blot and western blot and 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. The emission spectra for this DyLight™ conjugate match the principle output wavelengths of most common fluorescence instrumentation.			
Application Note:				
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			

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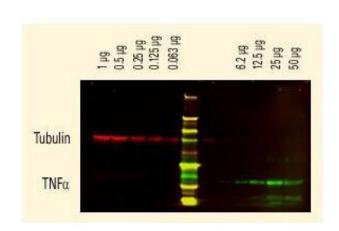


Reconstitution Volume:	100 μL		
Reconstitution Buffer:	Restore with deionized water (or equivalent)		

Shipping & Handling

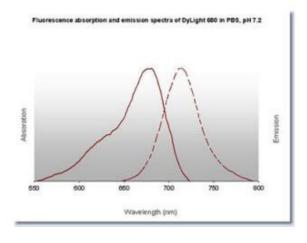
Shipping Condition:	Ambient			
Storage Condition:	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.			
Expiration:	Expiration: Expiration date is one (1) year from date of receipt.			

Images



Western Blot

DyLight™ dyes can be used for two-color western blot detection with low background and high signal. Anti-tubulin was detected using a DyLight™ 680 conjugate. Anti-TNFa was detected using a DyLight™ 800 conjugate. The image was captured using the Odyssey® Infrared Imaging System developed by LI-COR.



Diagram

DyLight™ 680 Fluorescence Spectra.

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Diagram

Properties of DyLight™ Fluorescent Dyes.

Emission	Color	DyLight™ Dye	Ex/Em (nm)	в (M-1 cm-1)	Similar Dyes
Blue		405	400/420	30,000	Alexa™ 405, Cascade Blue
Green	7	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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