



PROTEIN G DyLight™ 405 Conjugated - PG00-46

Code: PG00-46

Size: 100 µg

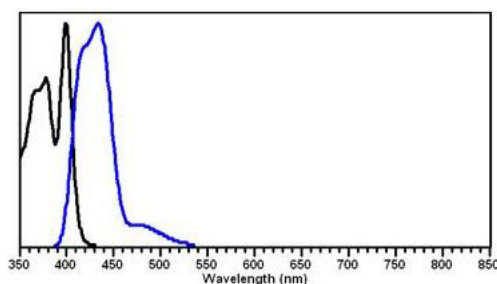
Product Description: PROTEIN G DyLight™ 405 Conjugated - PG00-46

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







PhysicalState: Lyophilized

Label	DyLight™ 405
Emission Wavelength	420
Excitation Wavelength	400
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	ProG, Streptococcus G protein, Protein G DyLight™ 405 Conjugated
Application Note	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. The emission spectra for this DyLight™ conjugate match the principle output wavelengths of most common fluorescence instrumentation.
Background	Protein G is a surface protein of two groups of Streptococcal bacteria that has the ability to bind immunoglobulins. Similar to Protein A, but with slightly different specificity, Protein G is an important agent in the purification of proteins due to its ability to bind the Fc region. While native Protein G binds to albumin, recombinant Protein G is designed to contain only immunoglobulin binding domains to ensure the maximum specific IgG binding capacity. Protein G is often immobilized on solid surface such as Sepharose™, latex or magnetic particles for IgG purification from ascites, serum or hybridoma culture media. Protein G is also coupled with reporter molecules such as a fluorescein, peroxidase, biotin, DyLight™ and other detection reagents.
Purity And Specificity	Protein G DyLight™405 is chromatographically pure recombinant Protein G and shows predominantly a single band by SDS-PAGE. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Protein G. No reaction was observed against anti-Protein A.
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.
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



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

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.