

Datasheet for PA00-46

Protein A DyLight™ 405 Conjugated

Overview

| | |
|---------------------|---|
| Description: | Protein A DyLight™ 405 Conjugated - PA00-46 |
| Item No.: | PA00-46 |
| Size: | 100 µg |
| Origin: | Staphylococcus aureus |

Product Details

| | |
|---------------------------|--|
| Background: | Protein A is a 56 kDa cell wall protein originated from Staphylococcus aureus. It contains five homologous Ig-binding domains. Each domain is able to bind the Fc fragment of a wide range of mammalian immunoglobulins. Protein A affinity to Fc may vary in dependence of IgG species origins or subclasses. Protein A is often coupled to solid matrixes such as Sepharose™, magnetic particles or latex for IgG purification from ascites, serum or hybridoma culture media. Protein A is often coupled with reporter molecules such as a fluorescent dye, DyLight™, enzymes, biotin, or other detection agents. |
| Synonyms: | ProA, Staphylococcus A protein, Protein A DyLight™ 405 Conjugated |
| Species of Origin: | Staphylococcus aureus |
| Conjugate: | DyLight™ 405 |
| F/P Ratio: | 2.0 |

Target Details

| | |
|----------------------------|---|
| Purity/Specificity: | This product is chromatographically pure Protein A and shows predominantly a single band by SDS-PAGE. Greater than 95% of the A280 material binds to Human IgG. |
| Relevant Links: | <ul style="list-style-type: none">• UniProtKB - P38507 |

Application Details

| | |
|--------------------------|--|
| 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.

| | |
|-------------------------|---|
| 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







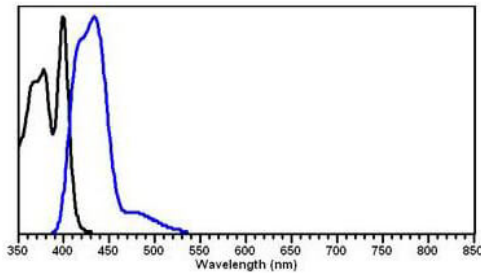
| Emission | Color | DyLight™ Dye | Ex/Em (nm) | ϵ (M ⁻¹ cm ⁻¹) | Similar Dyes |
|---------------|---|--------------|------------|--|------------------------------------|
| Blue |  | 405 | 400/420 | 30,000 | Alexa™ 405, Cascade Blue |
| Green |  | 488 | 493/518 | 70,000 | Alexa™ 488, Cy2®, FITC |
| Yellow |  | 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 |

Diagram
Properties of DyLight™ Fluorescent Dyes.

Diagram



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.