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Datasheet for 600-442-386

# VSV-G Epitope Tag Antibody Dylight™ 549 Conjugated

## Overview

| | |
|---|---|
| **Description:** | Anti-VSV-G Epitope Tag (RABBIT) Antibody DyLight™ 549 Conjugated - 600-442-386 |
| **Item No.:** | 600-442-386 |
| **Size:** | 100 µg |
| **Reactivity:** | VSV-G-Tag |
| **Host Species:** | Rabbit |

## Product Details

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| **Background:** | In order to improve expression levels, solubility, folding, purification and detection of recombinant proteins, a very common strategy is the fusion of peptides or proteins also known as “tags”, to the target protein. Because these tags are entities with known sequences and well characterized physicochemical properties, they are an essential tool in molecular biology that facilitates expression and purification of recombinant proteins. Because fusion tags constitute themselves antigenic epitopes for which antibodies can be developed they particularly useful for specific detection of the target protein. This Anti-VSV-G Epitope Tag Antibody generated in rabbit is conjugated to DyLight™549. |
| **Synonyms:** | Rabbit Anti-VSV-G Epitope Tag DyLight 549™ Conjugated Antibody, Rabbit Anti VSV-G Epitope Tag DyLight 549™ Conjugated Antibody, Rabbit Anti-VSV-G Tag Antibody DyLight 549™ Conjugation |
| **Host Species:** | Rabbit |
| **Conjugate:** | DyLight™ 549 |
| **Clonality:** | Polyclonal |
| **Format:** | IgG |
| **F/P Ratio:** | 3.6 |

## Target Details

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| **Reactivity:** | VSV-G-Tag |
| **Immunogen Type:** | Conjugated Peptide |

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| **Immunogen:** | This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding aa 501-511 (Y-T-D-I-E-M-N-R-L-G-K) of vesicular stomatitis virus glycoprotein (VSV-G) conjugated to KLH using maleimide. |
| **Purity/Specificity:** | This affinity purified antibody is directed against the VSV-G epitope tag and is useful in determining its presence in over expressed proteins in various assays. The antibody recognizes the VSV-G epitope tag (Tyr-Thr-Asp-Ile-Glu-Met-Asn-Arg-Leu-Gly-Lys) fused to either the amino- or carboxy- termini of targeted proteins in transfected or transformed cells. |

## Application Details

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| **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 - 1:25,000 |

## Formulation

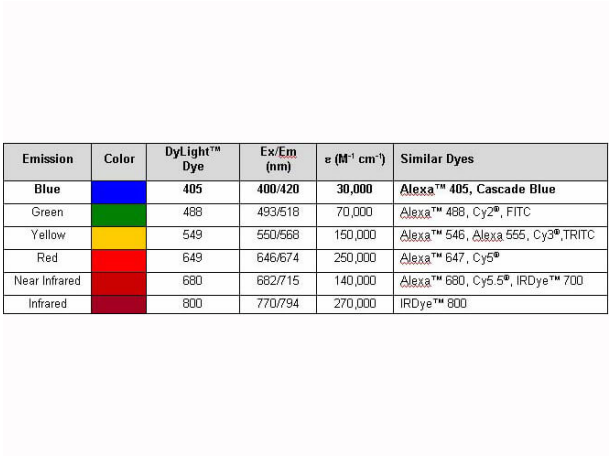
| | |
|---|---|
| **Physical State:** | Lyophilized |
| **Concentration:** | 1.0 mg/mL by UV absorbance at 280 nm |
| **Buffer:** | 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 |
| **Preservative:** | 0.01% (w/v) Sodium Azide |
| **Stabilizer:** | 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin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

## Shipping & Handling

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| **Shipping Condition:** | Ambient |

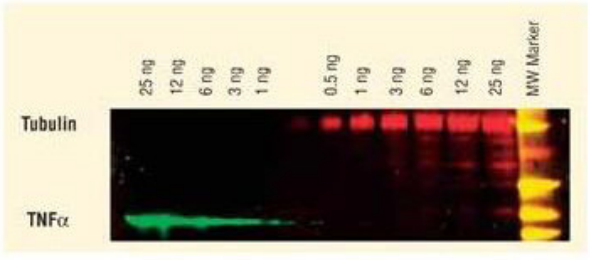
| | |
|---|---|
| **Storage Condition:** | Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several 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



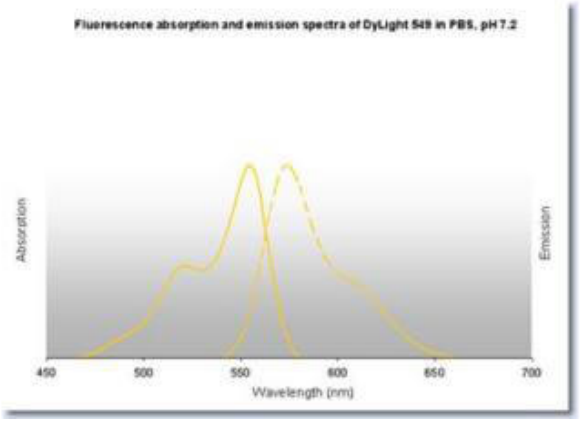
| Emission | Color | DyLight™ Dye | Ex/Em (nm) | ε ($M^{-1}$ $cm^{-1}$) | Similar Dyes |
|---|---|---|---|---|---|
| **Blue** | | **405** | **400/420** | **30,000** | **Alexa™ 405, Cascade Blue** |
| Green | | 488 | 493/518 | 70,000 | Alexa™ 488, Cy2®, FITC |
| Yellow | | 549 | 550/568 | 150,000 | Alexa™ 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.




**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™ 549 conjugate. Anti-TNFa was detected using a DyLight™ 649 conjugate. The image was captured using the Typhoon™ 9410 Imaging System.

**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.