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Datasheet for 605-443-003

# Goat IgG Fc Antibody DyLight™ 649 Conjugated

## Overview

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|---|---|
| **Description:** | Rabbit Anti-Goat IgG Fc Antibody DyLight™ 649 Conjugated - 605-443-003 |
| **Item No.:** | 605-443-003 |
| **Size:** | 100 µg |
| **Applications:** | WB |
| **Reactivity:** | Goat |
| **Host Species:** | Rabbit |

## Product Details

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| **Background:** | Anti-Goat IgG F(c) generated in rabbit is a proteolytic fragment of immunoglobulin G (IgG) obtained by limited digestion with the enzyme papain under controlled conditions of temperature, time and pH. Receptors bind the Fc portion of goat IgG and often this fragment is removed from immunoglobulins to minimize receptor binding and lower background reactivity. |
| **Synonyms:** | rabbit anti-Goat IgG F(c) Antibody DyLight 649™ conjugation, rabbit anti-Goat IgG Fc fragment DyLight 649™ conjugated Antibody |
| **Host Species:** | Rabbit |
| **Specificity:** | IgG Fc |
| **Conjugate:** | DyLight™ 649 |
| **Clonality:** | Polyclonal |
| **Format:** | IgG |
| **F/P Ratio:** | 2.6 |

## Target Details

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| **Reactivity:** | Goat |
| **Immunogen:** | Goat IgG F(c) fragment |

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| **Purity/Specificity:** | This product was prepared from monospecific antiserum by immunoaffinity chromatography using Goat IgG coupled to agarose beads followed by solid phase adsorption(s) to remove any unwanted reactivities. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Rabbit Serum, Goat IgG, Goat IgG F(c) and Goat Serum. No reaction was observed against Goat IgG F(ab) This antibody will react with heavy chains of Goat IgG. Minimal reactivity is expected against other Goat immunoglobulins. |

## Application Details

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| **Tested Applications:** | WB |
| **Application Note:** | Anti-Goat IgG F(c) DyLight649 Conjugated has been tested by Western blot. 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

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| **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 |

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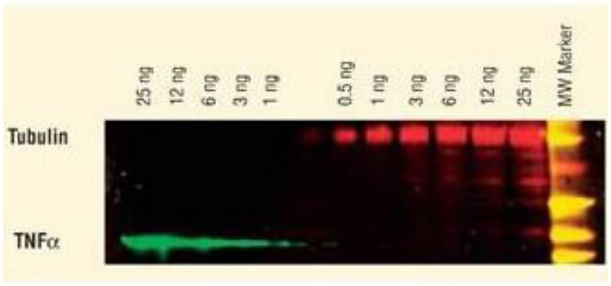
| **Storage Condition:** | Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4°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

## Images

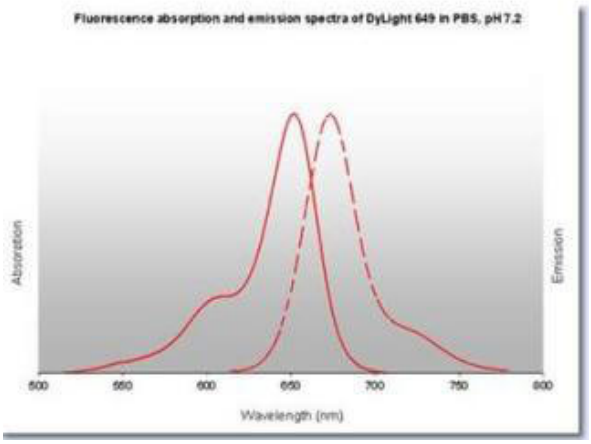
**Diagram**
Properties of DyLight™ Conjugates.

| 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 |

**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

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