## Overview

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<th>Parameter</th>
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<tr>
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<td>Heavy &amp; Light Chain</td>
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<td>Application</td>
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## Purpose

Goat anti-Rabbit IgG DyLight™ 680 Conjugated Antibody

## Immunogen

Rabbit IgG whole molecule

## Isotype

IgG

## Specificity

This antibody will react with heavy chains of Rabbit IgG and with light chains of most Rabbit immunoglobulins.

## Characteristics

**Synonyms:** Goat anti-Rabbit IgG Antibody DyLight™680 Conjugation, Goat anti-Rabbit IgG DyLight™ 680 Conjugated Antibody  

**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...
Product Details

immobilizing them), activation of the compliment cascade, and opsinization 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 cross-reactivity, and host-species source and fragment composition. This Anti-Rabbit IgG (H&L) is conjugated to DyLight™680.

Purification:
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.

Labeling Ratio: 2.6

Target Details

Target: IgG
Abstract: IgG Products
Target Type: Antibody

Application Details

Application Notes: 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.

FLISA Dilution: >1:20,000
Western Blot Dilution: >1:10,000
IF Microscopy Dilution: >1:5,000

Restrictions: For Research Use only

Handling

Format: Lyophilized
## Handling

| **Reconstitution** | **Reconstitution Volume:** 100 μL  
**Reconstitution Buffer:** Restore with deionized water (or equivalent) |
|---------------------|------------------------------------------------------------------------|
| **Buffer:**         | **Buffer:** 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2, 0.01% (w/v) Sodium Azide  
**Stabilizer:** 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free |
| **Preservative:**   | Sodium azide |
| **Precaution of Use:** | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| **Storage:**        | RT, 4 °C; -20 °C |
| **Storage Comment:**| 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. |
| **Expiry Date:**    | 12 months |

### Publications


There are more publications referencing this product on: [Product page](#).

### Images

#### Immunofluorescence

**Image 1.** 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-TNFα was detected using a DyLight™ 800 conjugate. Secondary antibody: ABIN6699114. The image was captured using the Odyssey® Infrared Imaging System developed by LI-COR.