Datasheet for ABIN1043989

Rabbit anti-Mouse IgG Antibody (Atto 550) - Preadsorbed

Overview

<table>
<thead>
<tr>
<th>Quantity</th>
<th>100 μg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Target</td>
<td>IgG</td>
</tr>
<tr>
<td>Reactivity</td>
<td>Mouse</td>
</tr>
<tr>
<td>Host</td>
<td>Rabbit</td>
</tr>
<tr>
<td>Clonality</td>
<td>Polyclonal</td>
</tr>
<tr>
<td>Conjugate</td>
<td>Atto 550</td>
</tr>
<tr>
<td>Application</td>
<td>Western Blotting (WB), FLISA, Fluorescence Microscopy (FM)</td>
</tr>
</tbody>
</table>

Product Details

| Immunogen: | Immuneogen: highly purified mouse IgG gamma 1, gamma 2a, gamma 2b and gamma 3 proteins |
| Isotype:    | IgG |
| Characteristics: | Anti-Mouse IgG (gamma 1, 2a, 2b and 3 chain) conjugated to ATTO 550 is designed for STED microscopy, FRET, 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. This product is designed for STED microscopy, FRET, 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. |
| Purification: | Preadsorption: Solid phase absorption |
## Product Details

| Labeling Ratio: | 1.5 |

## Target Details

| Target: | IgG |
| Abstract: | IgG Products |
| Target Type: | Antibody |

**Background:**

Synonyms: rabbit anti-Mouse IgG (gamma 1, 2a, 2b and 3 chain) Antibody ATTO550 conjugation, rabbit anti-Mouse IgG ATTO550 conjugated Antibody

Anti-Mouse IgG ATTO 550 Antibody generated in rabbit detects reactivity to Mouse IgG1, IgG2a, IgG2b and IgG3. 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 immobilizing them), activation of the complement cascade, and opsonization 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. IgG1, IgG2a, IgG2b and IgG3 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.

## Application Details

| Application Notes: | Application Note: Anti-Mouse IgG (gamma 1, 2a, 2b and 3 chain) conjugated to ATTO 550 is designed for STED microscopy, FRET, 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 ATTO conjugate matches 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 |
| Comment: | The emission spectra for this ATTO conjugate matches the principle output wavelengths of most common fluorescence instrumentation. |
**Application Details**

| Restrictions:         | For Research Use only |

**Handling**

<table>
<thead>
<tr>
<th>Format:</th>
<th>Lyophilized</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reconstitution:</td>
<td>Restore with deionized water (or equivalent)</td>
</tr>
<tr>
<td>Concentration:</td>
<td>1.0 mg/mL</td>
</tr>
</tbody>
</table>
| Buffer:               | Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2  
                        Stabilizer: 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free  
                        Preservative: 0.01 % (w/v) Sodium Azide |
| Preservative:         | Sodium azide          |
| Precaution of Use:    | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Handling Advice:      | Avoid cycles of freezing and thawing.  
                        Product is photosensitive and should be protected from light. |
| Storage:              | RT, 4 °C, -20 °C      |
| Storage Comment:      | Store vial at -20 °C prior to opening. Aliquot contents and freeze at -20 °C or below for extended storage. This product is stable for several weeks at 0 °C as an undiluted liquid. |
| Expiry Date:          | 12 months             |

**Images**

**Immunofluorescence**

**Image 1.**
Western Blotting

**Image 2.** Western Blot of ATTO 550 Rabbit Anti-Mouse IgG (gamma 1, 2a, 2b, 3) secondary antibody. Lane 1: Mouse IgG1. Lane 2: Mouse IgG2a. Lane 3: Mouse IgG2b. Lane 4: Mouse IgG3. Load: 50 ng per lane. Primary antibody: None. Secondary antibody: ATTO 550 rabbit secondary antibody at 1:1,000 for 60 min at RT. Blocking: ABIN925618 for 30 min at RT. Predicted/Observed size: 25 & 55 kDa, 25 & 55 kDa for Mouse IgG Subclasses. Other band(s): None.

Immunofluorescence

**Image 3.**