Datasheet for ABIN964999

**Goat anti-Rat IgG (Heavy & Light Chain) Antibody (Atto 488) - 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>Binding Specificity:</td>
<td>Heavy &amp; Light Chain</td>
</tr>
<tr>
<td>Reactivity:</td>
<td>Rat</td>
</tr>
<tr>
<td>Host:</td>
<td>Goat</td>
</tr>
<tr>
<td>Clonality:</td>
<td>Polyclonal</td>
</tr>
<tr>
<td>Conjugate:</td>
<td>Atto 488</td>
</tr>
<tr>
<td>Application:</td>
<td>Western Blotting (WB), FLISA, Fluorescence Microscopy (FM)</td>
</tr>
</tbody>
</table>

### Product Details

<table>
<thead>
<tr>
<th>Immunogen:</th>
<th>Immunogen: Rat IgG whole molecule</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isotype:</td>
<td>IgG</td>
</tr>
<tr>
<td>Specificity:</td>
<td>Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Goat Serum, Rat IgG and Rat Serum.</td>
</tr>
<tr>
<td>Characteristics:</td>
<td>Anti-Rat IgG (H&amp;L) conjugated to ATTO 488 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.</td>
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</table>
## Product Details

<table>
<thead>
<tr>
<th>Platform</th>
<th>platforms.</th>
</tr>
</thead>
</table>

### Purification

- **Preadsorption**: Solid phase absorption

### Labeling Ratio

- 2.5

## Target Details

<table>
<thead>
<tr>
<th>Target</th>
<th>IgG</th>
</tr>
</thead>
</table>

### Abstract

IgG Products

### Target Type

- Antibody

### Background

- **Synonyms**: Goat anti-Rat IgG ATTO488 Conjugated Antibody, Goat anti-Rat IgG Antibody ATTO 488 Conjugation
- **Background**: Anti-Rat IgG (H&L) conjugated to ATTO 488 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.

## Application Details

### Application Notes

- **Application Note**: 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.

### Restrictions

- For Research Use only

## Handling

### Format

- Lyophilized

### Reconstitution

- **Reconstitution Volume**: 500 μL
- **Reconstitution Buffer**: Restore with deionized water (or equivalent)

### Concentration

- 1.0 mg/mL

### Buffer

- **Buffer**: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Handling

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.
This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below.
Product is photosensitive and should be protected from light.

Storage:
RT, 4 °C; -20 °C

Storage Comment:
Store vial at -20 °C or below prior to opening. Store the vial at -20 °C or below after dilution.

Expiration Date:
12 months

Images

Immunofluorescence

Image 1. Immunofluorescence of anti rat IgG antibody
Tissue: Normal mouse spleen
Fixation: methanol frozen
Antigen retrieval: user optimized
Primary antibody: AbD Serotec's Rat anti-mouse CD3 antibody (KT3 clone). (1mg/ml)
Secondary antibody: ATTO dye 488 anti-rat IgG (1:200 dilution)
Localization: CD3+ populations throughout the spleen of a normal mouse
Staining: antibody as green fluorescent signal with a DAPI blue nuclear counterstain
(Rebecca Evans, The University of Pennsylvania School of Medicine)
Immunofluorescence

Image 2. Immunofluorescence of anti rat IgG antibody
Tissue: Normal mouse spleen Fixation: user optimized
Antigen retrieval: user optimized Primary antibody: rat anti-
mouse primary antibody (clone BM8 from eBioscience)
against F4/80 (1:100 dilution) Secondary antibody: ATTO
dye 488 anti-rat IgG () 1:200 dilution) Localization:
macrophage populations throughout the spleen of a normal
mouse. Staining: antibody as green fluorescent signal with a
DAPI blue nuclear counterstain. (Rebecca Evans, The
University of Pennsylvania School of Medicine)

Please check the product details page for more images. Overall 4 images are available for ABIN964999.