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Datasheet for 610-154-043

# Mouse IgG3 Antibody ATTO 550 Conjugated Pre-adsorbed

## Overview

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| **Description:** | Goat Anti-Mouse IgG3 (Gamma 3 chain) Antibody ATTO 550 Conjugated (Min X to Bv, Hu, and Rb Serum Proteins) - 610-154-043 |
| **Item No.:** | 610-154-043 |
| **Size:** | 500 µg |
| **Reactivity:** | Mouse |
| **Host Species:** | Goat |

## Product Details

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| **Background:** | Anti-Mouse IgG3 ATTO 550 Antibody generated in goat detects reactivity to Mouse IgG3 (Gamma 3 chain). Secreted as part of the adaptive immune response by plasma B cells, immunoglobulin G constitutes 75% of serum immunoglobulins. IgG3 comprises almost 10% of the IgG subclass and has a high affinity for binding to the Fc receptor of phagocytic cells. 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. |
| **Synonyms:** | goat anti-MOUSE IgG3 Antibody ATTO550 Conjugation, goat anti-MOUSE IgG3 ATTO 550 Conjugated Antibody |
| **Host Species:** | Goat |
| **Specificity:** | IgG3 |
| **Conjugate:** | ATTO 550 |
| **Clonality:** | Polyclonal |
| **Format:** | IgG |
| **F/P Ratio:** | 2.5 |

## Target Details

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| **Reactivity:** | Mouse |
| **Immunogen Type:** | Native Protein |

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| **Immunogen:** | Mouse IgG3 heavy chain |
| **Purity/Specificity:** | Anti-MOUSE IgG3 (Gamma 3 chain) Antibody was prepared from monospecific antiserum by immunoaffinity chromatography using antigens 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-Goat Serum, Mouse Serum and Mouse IgG3. No reaction was observed against Bovine, Human, and Rabbit Serum Proteins. Specificity was confirmed by ELISA at less than 1% of target signal. |

## Application Details

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| **Application Note:** | ATTO Dye Conjugated Secondary Antibodies are 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. Anti-Mouse IgG3 secondary antibody is suitable for ELISA, Immunohistochemistry, western blotting as well as other anti IgG3 antibody based assays. The emission spectra for this ATTO conjugate matches 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. |
| **FC:** | 1:500 - 1:2,500 |
| **FLISA:** | >1:20,000 |
| **IF:** | >1:5,000 |
| **IHC:** | >1:5,000 |
| **WB:** | >1:10,000 |

## 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:** | 500 µL |
| **Reconstitution Buffer:** | Restore with deionized water (or equivalent) |

## Shipping & Handling

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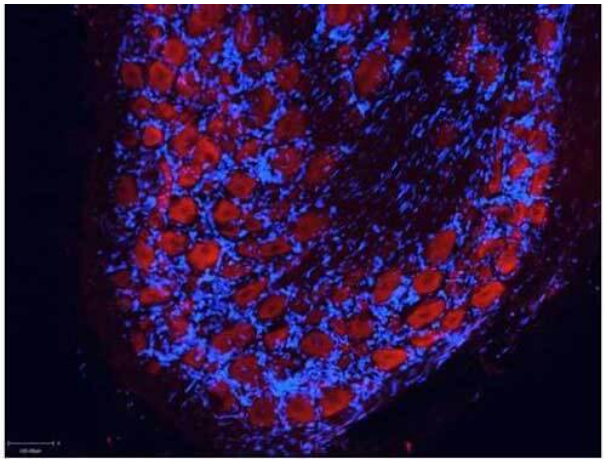
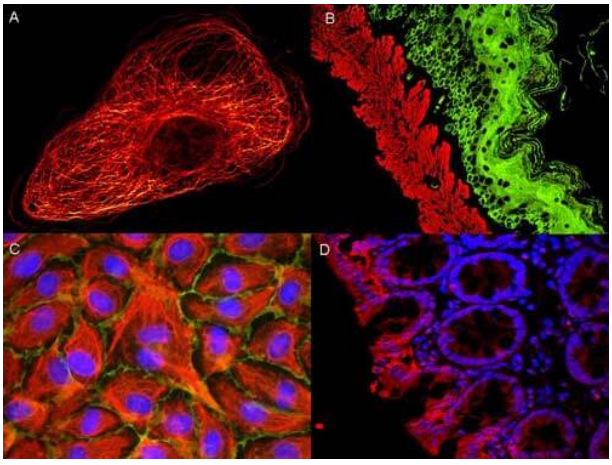
| **Shipping Condition:** | Ambient |
| **Storage Condition:** | Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product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



**Immunofluorescence Microscopy**
Atto™ dyes can be used for multicolor immunofluorescent detection with low background and high signal. Example shown here is Immunohistochemical staining using ATTO-550 Anti-Aquaporin 2-antibody (red) of paraffin embedded region of rat kidney showing a transversal cut of the inner medulla near to the renal papilla. Nuclei are visualized with Hoechst 33342 (blue). Images provided courtesy of Dr. Jörg Reichwein, ATTO-TEC GmbH




**Immunofluorescence Microscopy**
ATTO ® dyes can be used for multicolor immunofluorescent detection with low background and high signal. Examples shown are: A. Tubulin in PtK2- male Rat Kangaroo Kidney Epithelial Cells was detected using ATTO 532 labeled secondary antibody. B. Muscle alpha-actin was stained with a mouse primary antibody and ATTO 488 anti-mouse IgG (green) while Cytokeratin was stained with polyclonal rabbit anti-cytokeratin and ATTO 647N anti-rabbit IgG (red). C. HUVEC (Human umbilical vein endothelial cells were stained with anti- Vimentin-ATTO 532 (green), anti-E-Cadherin-ATTO 655 (red) and DAPI (blue). D. Rat colon sections were stained with Anti-Aquaporin 3-ATTO 594 antibody. Hoechst 33342 (blue) is used as counterstain. Images provided courtesy of Dr. Jörg Reichwein, ATTO-TEC GmbH

## Disclaimer

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