

43328 Atto 550 goat anti-rabbit IgG (whole Molecule)

Product Description

Anti-rabbit IgG (whole molecule) (Product R4880) is developed in goat using purified rabbit IgG as the immunogen. Affinity isolated antigen specific antibody is purified from goat anti-rabbit IgG antiserum to remove essentially all goat serum proteins, including immunoglobulins, which do not specifically bind to rabbit IgG.

Goat anti-rabbit is conjugated to Atto 550 NHS (Abs.max. 554 nm; Em.max. 576 nm),(Product 92835), then further purified via gel permeation chromatography and dialysis to remove unbound Atto-Dye.

Reagents

Atto 550 goat anti-rabbit IgG (whole molecule) is provided in unit sizes of 1 ml as 1 mg/ml solutions in 0.1 M sodium phosphate, 0.1 M NaCl, pH 7.5, containing 5 mM sodium azide as a preservative.

Working Concentrations

It is recommended that each individual user determine the optimum working dilution empirically for their systems.

Generally concentrations of 1-10 µg/ml are sufficient for many applications.

Fluorophore / Protein (F/P) Ratio: 2 to 9 (The exact F/P ratio of each lot is mentioned on the certificate of analysis)

The F/P molar ratio is determined spectrophotometrically as follows:

$$F/P = \frac{A_{554} \times 203,000}{[A_{280} - (A_{554} \times 0.117)] \times 120,000}$$

 A_{554} = absorbance at 554 nm measured in a cuvette with a path length of 1 cm A_{280} = absorbance at 280 nm measured in a cuvette with a path length of 1 cm 203,000 = molar extinction coefficient (ϵ) of a IgG at 280 nm [cm⁻¹M⁻¹] 120,000 = molar extinction coefficient (ϵ) of the Atto 550 dye at 554 nm [cm⁻¹M⁻¹] 0.117= correction factor due to the fluorophore's absorbance at 280 nm

Storage / Stability

For continuous use, store at 2-8 °C for up to three months. For extended storage, the solution may be frozen in working aliquots at -20 °C. Frozen aliquots are stable for at least six months. Repeated freezing and thawing is not recommended. Storage in "frost-free" freezers is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Protect fluorescent conjugates from light.

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

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