Mega 520-goat anti-rabbit IgG (whole Molecule)
Product No. 38376

Product Description
Anti-rabbit IgG (whole molecule) 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 Mega 520-NHS (Abs.max. 524 nm; Em.max. 664nm), then further purified via gel permeation chromatography to remove unbound Mega 520-Dye.

Reagents
Mega 520-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:

$$F/P = \frac{A_{520} \times 203{,}000}{[A_{280} - (A_{520} \times 0.157)] \times 37{,}000}$$

A_{501}= absorbance at 501 nm measured in a cuvette with a pathlength of 1 cm
A_{280} = absorbance at 280 nm measured in a cuvette with a pathlength of 1 cm
203,000 = molar extinction coefficient (ε) of a IgG at 280 nm [$cm^{-1}M^{-1}$]
37,000 = molar extinction coefficient (ε) of the Mega 520 dye at 524 nm [$cm^{-1}M^{-1}$]
0.157 = 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
Due to the sodium azide content a material safety data sheet (MSDS) for this product has been sent to the attention of the safety officer of your institution. Consult the MSDS for information regarding hazards and safe handling practices.

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