

hypermol@hypermol.com Fon:+49 (0)521 9876226 Fax:+49 (0)521 9876227

DATASHEET

Fluorescent Antibody F(ab) Atto565

Anti-Mouse IgG F(ab) Atto565

Goat anti-mouse IgG F(ab) Atto565

For Use in Research Only. Not for Use in Human or Veterinary Diagnostic or Therapeutic Processes.

Kit Content (Cat. #: 2117-250UG)

250µg Anti-Mouse IgG F(ab) Atto565 (H+L) 1.0ml Glycerol buffer Product datasheet

Product Documentation

Anti-Mouse IgG F(ab) Atto565

Anti-mouse IgG F(ab) Atto565 is the antigen-specific fragment of the antibody obtained by papain cleavage. Affinity purification removed essentially all goat serum proteins, including immunoglobulins not specifically binding to mouse IgG. F(ab) fragment was purified by ion exchange chromatography (IEX). Anti-mouse IgG F(ab) is conjugated to Atto565 NHS (Abs.max. 563 nm; Em.max. 592 nm) with a degree of labelling of 1-3 and subsequent purification by gel filtration. The antibody fragment is supplied in unit sizes of 250µg.

Reconstitution of Antibodies with Glycerol-PBS

Add 0.125ml Glycerol buffer to the lyophilized secondary antibody, to reconstitute a 2mg/ml stock solution. Vortex for 10sec until completely dissolved. Final concentrations of the antibody buffer: 0.01M sodium phosphate, 0.1M NaCl, pH 7.4, 5mM NaN₃ in 50% glycerol.

Working Dilution

Each individual user should determine the optimum working dilution empirically for the systems. Dilutions of 1:300 – 1:500 are suited for many applications.

Determining the Degree of Labeling (DOL)

1. Protein Concentration

Determination of the protein concentration by UV absorption measurement at 280nm ($e_{max} = 203,000 \text{ M}^{-1} \text{ cm}^{-1}$).



For product inquiries please contact: cusserv@hypermol.com Fon: +49 (0)521 9876228 Fax: +49 (0)521 9876231 www.hypermol.com

Copyright @ HYPERMOL EK

1 OF 2





DATASHEET

Fluorescent Antibody F(ab)-Atto565

2. Degree of Labelling

The degree of labeling (DOL or dye/protein ratio) is usually determined by absorption spectroscopy making use of the Lambert-Beer law: Absorbance (A) = extinction coefficient (Θ × molar concentration × path length (d). Simply measure the UV-VIS spectrum of the conjugate in solution in a quartz cuvette. Dilute the solution, if necessary to measure within the linear range.

$$DOL = \frac{A_{563} \cdot 203,000}{A_{280} - (A_{563} \cdot 0.26) \cdot 115,000}$$

 $\begin{array}{l} A_{563} = \mbox{maximal absorbance at 563nm measured in a cuvette with a pathlength of 1 cm.} \\ A_{280} = \mbox{maximal absorbance at 280nm measured in a cuvette with a pathlength of 1 cm.} \\ 203,000 = \mbox{molar extinction coefficient (e) at the longest-wavelength absorption maximum (M^-1 cm^-1).} \\ 120,000 = \mbox{molar extinction coefficient (e) at the longest-wavelength absorption maximum (M^-1 cm^-1).} \\ 0.16 = \mbox{correction factor for the fluorophore 's absorbance at 280nm.} \end{array}$

Storage and 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. Avoid repeated freeze/thawing. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Protect fluorescent conjugates from light.

HYPERMOL EK WARRANTS THAT ITS PRODUCT ARE CONFORM TO THE INFORMATION CONTAINED IN THIS PUBLICA-TION. THE PURCHASERS MUST DETERMINE THE SUITABILTY OF THE PROCUCT(S) FOR THEIR PARTICULAR USE. AD-DITIONAL TERMS AND CONDITIONS MAY APPLY (SEE REVERSE SIDE OF THE INVOICE). HYPERMOL BRANDS ARE SOLD EXCLUSIVELY BY HYPERMOL EK, GERMANY AND AUTHORIZED DISTRIBUTORS.



For product inquiries please contact: cusserv@hypermol.com Fon: +49 (0)521 9876228 Fax: +49 (0)521 9876231 www.hypermol.com



Copyright @ HYPERMOL EK